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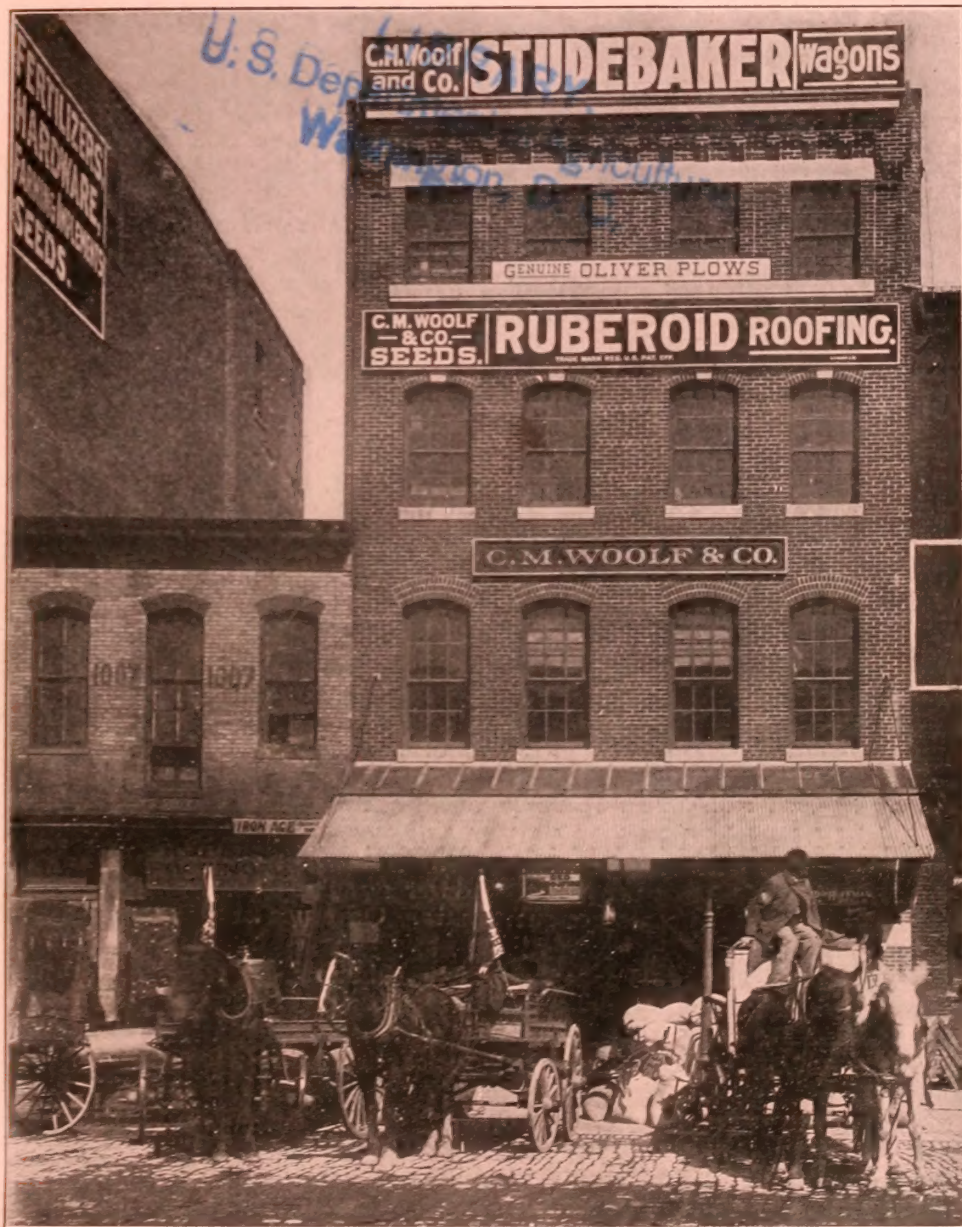
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# ANNUAL CATALOGUE

MACHINERY, SEEDS, FERTILIZERS, ETC.



C. M. Woolf & Company  
(INCORPORATED)

1005 and 1007 B STREET NORTHWEST, WASHINGTON, D. C.



# OUR CATALOGUE FOR 1913

**T**HE outlook for our agriculturists has never been brighter. The progress made in the science of farming during the past few years is causing a demand for better seeds, more up-to-date farm implements and labor saving devices. With the difficulties of securing farm help has come the demand for farm machinery, which would enable the farmer to accomplish with machinery what he could not otherwise do because of inability to secure efficient labor. Realizing all these facts, we have made a special study of the needs of the farmer and in our catalogue for 1913 we have listed those things which are specially adapted to the needs of the progressive farmer, the farmer who is making his calling a pride.

In our list of seeds is embraced the best, proven varieties, the kinds which have been giving satisfaction to our growers season after season. It is our constant aim to secure only the very best qualities, recommending only the varieties which we know to be worthy of the merit accorded them.

Our line of farm implements is second to none. We take pride in the machinery we offer you. It means labor saving, larger crops of all kinds and more money as the result of your energy.

As a result of the study of the farmer's needs and the watchfulness of his interests our business has grown steadily from year to year. We fully appreciate this and are encouraged to more earnest endeavor for the coming year.

Thanking you for the liberal patronage you have given us and respectfully soliciting a continuance of your further orders, we are,

Yours very truly,

C. M. WOOLF & CO., Incorporated.

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## GENERAL INFORMATION

**How to Send Money**—Money can be safely sent by Bank Check, Postoffice Money Order, Express Money Order, or Registered Letter. Postage stamp remittances in small amounts also satisfactory, but send one and 2-cent stamps. Customers who have no regular account with us will kindly remit the amount with their orders or give references, as is customary before opening new accounts.

**Seeds by Mail**—At prices quoted, we will pay postage on vegetable seeds to any postoffice in the United States, Alaska, Cuba and the Philippine Islands in packets, ounces, two ounces and quarter pounds, except where otherwise noted. Where not quoted postpaid, if the seeds are to be sent by mail, add 8 cents per pound to cover postage. On beans, corn and peas the postage is 8 cents per pint, 15 cents per quart extra. On onion sets the postage is 10 cents per quart extra.

**Seeds by Express or Freight**—For larger orders, shipment by freight or express is much cheaper. We make no charge for packing and cartage, and give especial attention to seeing that orders are filled promptly.

**Fluctuating in Price**—All seeds fluctuate in price, depending upon market conditions and supplies. The prices in this catalogue are those ruling at the time it is printed. While it is our intention to hold at the prices given in the catalogue as long as the market will permit us to do so, we must name all prices subject to change without notice. We shall take pleasure in quoting prices upon request or we will fill orders at the lowest market price for first-class goods.

**About Warranting Seeds**—While we use great care, both for our own and our customers' interests, to furnish the best seeds that it is possible to obtain, there are so many conditions—weather and other causes—affecting the growth of seeds, that it must be distinctly understood that all our seeds are sold under the conditions in regard to non-warranty of seeds which have been generally adopted by the seed trade and which are as follows:

"We give no warranty, expressed or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs or plants we send out, and will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned."



# Superior Vegetable Seeds

## ASPARAGUS

German, Spargel                      French, Asperge  
Spanish, Esparragos

One ounce for 60 feet of drill

Culture.—A convenient bed is about 6 feet wide, with a path 2 feet wide on each side. This will require 6 rows 1 foot apart, and a bed of that width 50 feet long will be ample for an ordinary family, requiring about one pound of seed. It will require about three years from the time of sowing until the bed is in full bearing, but once established, it is good for 20 years. It should be sown in drills 1 foot apart, and when the plants are 4 or 5 inches high they should be thinned out so that the plants will be 9 inches apart from each other in all the rows. Great care must be taken for the first year to keep down all weeds as soon as they appear, else they will choke up and destroy the young seedling Asparagus. The deeper the soil and the more manure used, the greater will be the crop.

Giant Argenteuil. New. A most promising variety, nearly twice the size of any other. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 75c.

Palmetto. Large, thick, dark-green shoots with a distinctly pointed tip. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 40c.

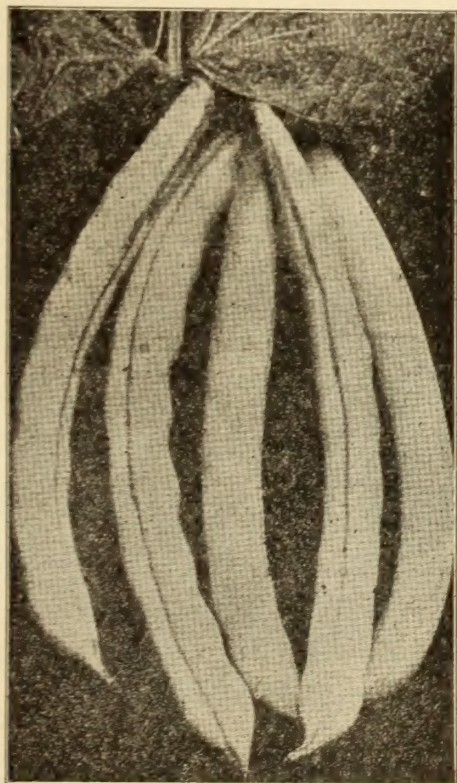
Asparagus Roots. Prices on application for choice stock.

## BEANS Dwarf or Bush

German, Bohnen                      French, Haricot  
Spanish, Frijole nano

One quart to 100 feet in drills; or 150 hills, 2 bushels to the acre in drills

A succession of sowings can be made from the first week in May until September. These dates are for the latitude of New York; farther south the sowing must be done earlier; farther north, later. Plant in drills about 2 inches deep, and from 18 inches to 2 feet apart, according to the richness of the soil; the poorer the soil the closer they can be planted. The seeds should be dropped about 2 inches apart.



## WAX-POD OR BUTTER BEANS

### BUSH VARIETIES

Black German Wax. (Black seed.) Very early; round, yellow pods; a well-known standard sort. Pt., 15c.; qt., 25c.; gal., 85c.; pk., \$1.50; bu., \$5.00.

Currie's Rust-Proof Wax. Pods long, flat and straight; very productive and rust-proof; black seed. Pt., 15c.; qt., 25c.; gal., 85c.; pk., \$1.50; bu., \$5.00.

Davis White Kidney Wax. Pods remarkably long, straight and handsome, waxy white color; enormously productive; seed white. Pt., 15c.; qt., 25c.; gal., 85c.; pk., \$1.50; bu., \$5.00.

Golden Wax. Very popular; well-known standard sort. Pt., 15c.; qt., 25c.; gal., 85c.; pk., \$1.50; bu., \$5.00.

Hodson Wax. New; claimed to be rust-proof and very productive. Pods long, cream-yellow. Pt., 15c.; qt., 25c.; gal., 85c.; pk., \$1.50; bu., \$5.00.

Kidney Wax (Wardwell's). Extra early; purely wax pods, long, flat and remarkably free from rust. Pt., 15c.; qt., 25c.; gal., 85c.; pk., \$1.50; bu., \$5.00.

Prolific Dwarf Black Wax. An improved strain of Black Wax of more vigorous habit and far more productive. Pods waxy yellow, with slightly curled point. Pt., 15c.; qt., 25c.; gal., 85c.; pk., \$1.50; bu., \$5.00.

## GREEN POD BUSH BEANS

Burpee's Stringless Green Pod. New. Extra early, prolific; entirely stringless; crisp, tender; fine quality. Pt., 15c.; qt., 25c.; gal., 85c.; pk., \$1.50; bu., \$5.50.

Black Valentine. A distinct form of Valentine; of handsome appearance and excellent quality. Pt., 15c.; qt., 25c.; gal., 75c.; pk., \$1.25; bu., \$4.50.

Hopkins Improved Valentine. An improved strain of Round Pod Red Valentine. Pt., 15c.; qt., 20c.; gal., 75c.; pk., \$1.25; bu., \$4.50.

Horticultural Dwarf. Late and productive; pods showy, great favorite in New England; fine shell variety. Pt., 15c.; qt., 25c.; gal., 85c.; pk., \$1.50; bu., \$5.00.

Longfellow. Early and prolific. Pods long and very tender. Pt., 15c.; qt., 25c.; gal., 75c.; pk., \$1.50; bu., \$5.00.

## BEANS, Pole or Running

One quart to 150 hills; 10 to 12 quarts to the acre in drills

These are more tender and require rather more care in culture than the Bush Beans and should be sown two weeks later. They succeed best in sandy loams, which should be liberally enriched with short manure in the hills, which are formed, according to the variety, from 3 to 4 feet apart. From 5 to 6 seeds are planted in each hill, about 2 inches deep. As the matured Bean is used mostly, the season is too short for succession crops in the North, though it is advantageous to plant succession crops in the southern States, where the season of growth is often from March to November. Rough cedar or similar poles about 7 or 8 feet high should be used for Lima Beans to climb on. They should be set in the ground at least 18 inches, so as to prevent being blown over.

Cut Short, or Corn Hill. A speckled Bean, used for planting among corn. Pt., 15c.; qt., 25c.; gal., 85c.; pk., \$1.50.

Kentucky Wonder. Fine green pod sort; early and productive; entirely stringless. Pt., 15c.; qt., 25c.; gal., 85c.; pk., \$1.50.

King Horticultural. Pods bright carmine-color, and both beans and pods are much larger than the common kind. Pt., 15c.; qt., 30c.; gal., 90c.; pk., \$1.75; bu., \$6.00.

Lazy Wife. Beans white; pods green and entirely stringless; produces an enormous quantity of pods. Pt., 15c.; qt., 25c.; gal., 85c.; pk., \$1.50; bu., \$6.00.

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## POLE LIMA BEANS

**Lima, King of the Garden.** Heavy cropper; bean and pod very large. Pt., 15c.; qt., 30c.; gal. 90c.; pk., \$1.75; bu., \$6.50.

**Lima Large, White** (extra large size). Selected stock. Beans very large. Pt., 15c.; qt., 30c.; gal., 90c.; pk., \$1.75; bu., \$6.50.

**Lima, Seibert's Early.** The earliest and one of the best for home or market - garden. The green-shelled beans are of immense size, but so tender that they shrink in drying to about the size of the large White Lima. Pt., 15c.; qt., 30c.; gal., 90c.; pk., \$1.75; bu., \$6.50.

### Bush Lima Beans

**Bush Lima, Burpee's.** Beans as large as Pole Limas; perfectly dwarf and very productive. Pt., 25c.; qt., 80; gal., \$1.25; pk., \$2.25; bu., \$8.00.

**Burpee, Improved Bush Lima.** Pods and beans are extremely large. Plant grows more erect than Burpee's Bush Lima and is more productive. Pt., 25c.; qt., 40c.; gal., \$1.25; pk., \$2.25; bu., \$8.00.

**Bush Lima, Henderson's.** Beans smaller than Burpee's or Dreer's, but very early and enormously productive. Pt., 15c.; qt., 25c.; gal., 90c.; pk., \$1.75.

**Fordhook Bush Lima.**

An improved type of Dreer's Bush Lima, ex-

cepting that it is also very much earlier. Pt., 25c.; qt., 40c.; gal., \$1.25; pk., \$2.25; bu., \$8.00.

## BEET

German, Kuntelrube      French, Betterave  
Spanish, Bettaraga

One ounce to 50 feet of drill; 5 to 6 pounds to the acre in drills

The soil which is best suited is that which is rather light and thoroughly enriched with manure. For an early supply, sow in spring as soon as the ground becomes fit to work in drills about 1 foot apart and 2 inches deep. For main crop, sow the first week in May, and for winter use sow in June.

**Bassano, Early Flat.** An early, tender variety; color light red. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

**Crosby's Egyptian.** The best for early market; as early as the original strain of Egyptian, is thicker and less inclined to push up a woody stock as it advances in growth. Pkt., 5c.; oz., 10c.; ¼ lb., 35c.; lb., \$1.25.

**Dewey's Early Blood Turnip.** An improved variety of deep blood-red color, fine form and flavor; a favorite market sort. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

**Early Blood Turnip.** One of the best known and most popular early sorts; smooth and dark red; excellent quality. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

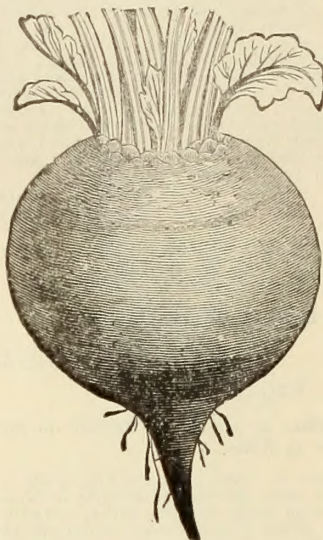
**Eclipse Blood Turnip.** Very early, round, smooth and dark red. Our strain of this variety is very select; it has a very small top, and is one of the best for market. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; lb., \$1.00.

**Detroit Dark Red.** Round; skin dark red; flesh light red, very sweet. Pkt., 5c.; oz., 10c.; ¼ lb., 35c.; lb., \$1.25.

## MANGEL-WURZEL

6 to 8 pounds of seed will sow an acre

**Culture.**—The following varieties are extensively grown for feeding stock and are excellent food to increase the flow of milk. As they grow much larger than the varieties cultivated for table use, they require more room, and should be sown in drills about 2 feet apart. The seeds should be dropped about 2 inches apart in the drills, and when strong enough thinned out to 12 to 15 inches in the row. The long varieties are best suited to a deep soil, and the globe sorts succeed better than the long sorts on sandy soil.



**Golden Tankard.** Best and most popular for dairy farming; a very large, yellow-fleshed sort, said to contain a large amount of sugar; grows largely above ground, is hardy and a heavy cropper. ¼ lb., 15c.; ½ lb., 25c.; lb., 40c.

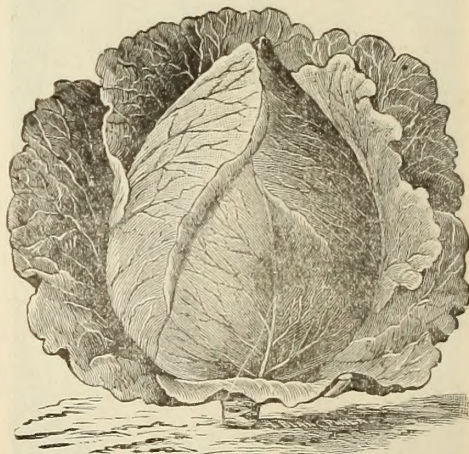
**Long Red.** This is an old-fashioned long red Mangel; new and improved sorts have, however, largely taken its place, such as Norbiton Giant, Mammoth Prize, etc. ¼ lb., 15c.; ½ lb., 25c.; 1 lb., 40c.

## CABBAGE

German, Kohl      Spanish, Berza de repollo  
French, Chou

One ounce will produce 3,000 plants

**Culture.**—Soil for Cabbage should be rich and heavy loam, with good drainage. On such a soil, with an abundance of stable manure, excellent crops are sure to be grown. For early spring, sow in fall, not too early, or the plants are liable to bolt in the spring instead of heading. In a month the plants will be



fit to transplant to coldframes, where they are wintered, taking care in planting to set the young plants down to the first leaves. Transplant in spring as soon as the ground can be worked, setting the plants 2 feet apart one way and from 12 to 18 inches the other, according to the variety. If it is desirable to econo-

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mize space, lettuce or radish may be sown between the rows, as they will be out of the way before the Cabbage needs the room. For late or winter crops, the seed is sown in May and



Large Late Flat Dutch

the plants set out in July. In this case they are set in rows 2x3 feet, so as to work them with a horse and cultivator. To prevent the turnip-flea from attacking the young plants, sift fine air-slacked lime or tobacco-dust over them as soon as they appear above ground.

**All-Seasons.** Heads very deep; can be planted for early or late crop, and is a splendid keeper; about as early as Early Summer, but forming much larger heads. Pkt., 5c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.50.

**Excelsior Late Flat Dutch.** A very valuable late variety; for main winter crop has no equal; sure header, fine keeper. Pkt., 5c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.50.

**Charleston Large Wakefield.** Popular with market-gardeners in the South. This strain is about one week later than the Early Jersey Wakefield, but the heads are fully one-half larger; will not burst when ripe, like most early sorts, and can be left standing in the field some time without damage. Pkt., 5c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.50.

**Danish Ballhead.** One of the very best winter sorts; heads round and very solid. Pkt., 5c.; oz., 20c.; ¼ lb., 60c.; 1 lb., \$2.00.

**Early Dwarf York.** A standard early English variety; heads small and heart-shaped. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; 1 lb., \$1.25.

**Early Flat Dutch.** Earlier and heads smaller than Late Flat Dutch; a good second-early, sure header, weighing 10 to 12 lbs; valuable market sort. Pkt., 5c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.50.

**Henderson's Succession.** One of the best of Cabbages; heads very large and somewhat flat; ten days later than Early Summer; much prized by gardeners. Pkt., 5c.; oz., 20c.; ¼ lb., 50c.; 1 lb., \$1.50.

**Red Rock (Henderson Mammoth).** The largest and surest heading red Cabbage. Heads as large and solid as Flat Dutch, and fine-grained. Pkt., 5c.; oz., 25c.; ¼ lb., 75c.; lb., \$2.50.

**Rice's Selected Early Jersey Wakefield.** This is the most widely known and popular early variety. Heads are cone-shaped and very solid. Pkt., 5c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.50.

**Rice's Surehead.** All head and always sure to head; this very popular variety is rightly named Surehead, because it never fails to form a good solid head, even on poor soil, but the richer the soil the larger and finer the head; it is the finest late Cabbage in this country, and best for market. Heads the list for winter use. Pkt., 5c.; oz., 15c.; ¼ lb., 50c.; lb., \$1.50.

**Large Late Drumhead.** Heads large, flat, solid, and a good keeper; planted for main crop for winter keeping. Pkt., 5c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.50.

**GREEN CURLED SAVOY. 80 DAYS.**—This is undoubtedly the finest type of Winter Cabbage. After having been frosted it boils like marrow, and is not surpassed even by the Cauliflower in its best condition. The strain is not to be confounded with low-priced imported seeds. It is a shy producer of seed, and consequently never plentiful. Pkt., 5c.; oz., 20c.; ¼ lb., 50c.; lb., \$1.50.

## CARROT

German, Mohre      French, Carotte  
Spanish, Zamahoria

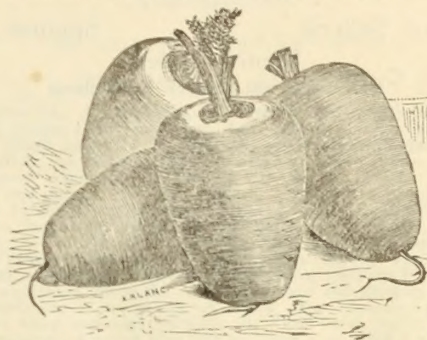
One ounce will sow 100 feet of drill; 3 pounds required for an acre

**Culture.**—Carrots require a very finely pulverized soil to grow them to perfection. A good, light and well-enriched sandy loam is the best for this crop. For field culture, sow in drills 3 to 3½ feet apart, so as to cultivate by horse. Market-gardeners

sow in drills, about 18 inches apart, and cultivate by hand. For early crops cover ¼ inch deep, and thin to six inches apart in the rows; for late, cover ¾ inch deep, and thin to four inches.

**Danvers Half-Long.** One of the heaviest croppers; roots dark orange color, 8 to 10 inches in length, thick, and ending in a somewhat abrupt point; first class for all soils. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; ½ lb., 50c.; lb., 90c.

**Early Scarlet Horn.** A very popular sort; quick-growing; deep orange in color; blunt-rooted; 6 to 8 inches in length. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; ½ lb., 50c.; lb., 90c.



**Improved Long Orange.** The best known and most largely cultivated of any carrot; excellent for stock or table use; roots deep orange, 12 to 15 inches long. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; ½ lb., 50c.; lb., 90c.

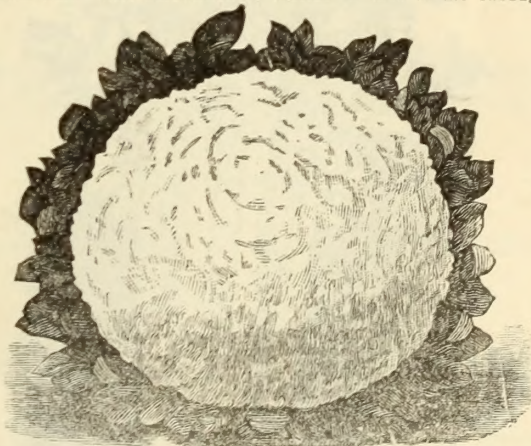
**Oxheart or Guerande.** Roots short and very thick, and intermediate between Scarlet Horn and Chantenay; color, deep orange; fine-grained and sweet; easily dug; annually grows in favor. Pkt., 5c.; oz., 10c.; ¼ lb., 30c.; ½ lb., 50c.; lb., 90c.

## CAULIFLOWER

German, Blumentohl      Spanish, Coliflor  
French, Choufleur

One ounce will sow a bed of 40 square feet, and produce about 3,000 plants.

**Culture.**—When grown to perfection this is a most delicious vegetable, and well repays generous treatment in cultivation. With a deep rich soil and an abundance of moisture, which in dry seasons must be applied artificially, Cauliflower can be grown well. The cultivation is similar to that of the cabbage.



For early fall crops, sow in May, and transplant in June, in rows 4 feet apart, setting the plants 2 feet apart in the rows; water frequently if the ground is dry. Frequent hoeing and a liberal supply of rich liquid manure, to keep up a continuous and rapid growth, will produce splendid heads of the most delicate flavor. It facilitates blanching if the leaves are gathered loosely together and tied over the top of the head to protect from the sun. Cut before the flowers begin to open. Sow as late as June 20 for late crops, in beds or in hills, covering ½ inch deep.

**Henderson's Early Snowball.** This is undoubtedly the finest variety ever introduced; it is the earliest, and produces beautiful snow-white heads of the most delicious flavor. The seed we offer is pure and genuine, and sure to prove satisfactory. Pkt., 25c.; ½ oz., \$1.00; oz., \$2.00; ¼ lb., \$6.00.

**Extra Selected Early Erfurt.** The finest strain of the Erfurt Cauliflower; almost as early as the Snow-ball; grows about 15 inches high, producing very solid, pure white heads of the very finest quality; seldom fails to form a good-sized head. Pkt., 25c.; ½ oz., \$1.00; oz., \$2.00; ¼ lb., \$6.00.

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**Dry Weather Cauliflower.** During some seasons, after a very late spring, hot weather comes on very quickly. In such a year this variety has proven itself of exceptional merit. Also in warm parts of the country, where there is not much cool weather, it is a most desirable sort. Very sure heading and second early. Heads larger than Snowball and snow white. Our seed is A1, and procured from the original grower in Denmark. Pkt., 25c; ½ oz., \$1.00; oz., \$2.00; ¼ lb., \$6.00.

## CELERY

German, Sellerie

Spanish, Apio

French, Celeri

One ounce will produce 7,000 plants

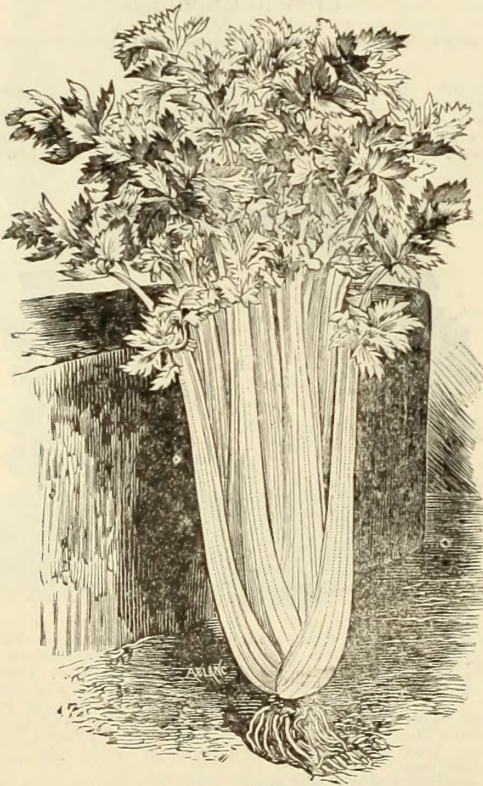
**Culture.**—Sow seeds in hotbeds or coldframe. As soon as the plants are about 3 inches high, transplant to a nicely prepared bed in the border, setting them 4 or 5 inches apart. When about 8 inches high, and fine, stocky plants, set them in the trenches. Earth up a little during the summer, keeping the leaf stalks close together, so that the soil cannot get between them. Finish earthing up in autumn, and never hoe or earth up in moist weather, nor when the plants are moistened with dew.

To preserve Celery for winter, dig trenches 1 foot in width and as deep as the tops of the plants. Stand the Celery in these, erect as they grew, with what dirt adheres to the roots, packing closely, but not crowding. After the trench is filled it should be covered with straw or leaves as a protection from frost. Do not cover until the weather becomes quite cold, and then only a little at a time, as the cold becomes greater. Celery will bear a good deal of frost. The trench must have good drainage.

**Dwarf Golden Self-blanching.** Our strain of this variety is unexcelled and absolutely reliable; this sort is, without doubt, the finest early Celery in cultivation. It is perfectly solid, of a fine, nutty flavor; attains a good size, and when blanched is of a handsome golden yellow color. Pkt., 5c; oz., 50c; ¼ lb., \$1.75; 1 lb., \$6.00.

**Giant Golden Heart.** A selection from Dwarf Golden Heart, which it resembles, but grows larger and is a better keeper; a favorite with Chicago gardeners. Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

**Giant Pascal.** The largest variety grown; is also the best



Giant Golden Heart Celery

keeper; of fine, nutty flavor, and very easily blanched; deservedly popular fall and winter use. Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

**Improved White Plume.** A well-known and perhaps the most popular variety of Celery; very early, ornamental, and, for quality, surpassed by none; has great merit as an early market sort. Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

**Pink Plume.** New. Practically identical with Improved White

Plume, but with the added merit of the stalks being richly suffused with pink; attractive in appearance and very fine in quality. Pkt., 5c; oz., 20c; ¼ lb., 60c; 1 lb., \$2.00.

**Soup Celery.** Seed for flavoring soups, pickles, etc., 30c per lb.

**Schumacher.** Very large; golden yellow heart; crisp and tender. Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25.

## CELERIAC

(Turnip-Rooted Celery)

German, Knollen Sellerie French, Celeri-rave

Spanish, Apio raiz de Nabo

**Culture.**—A variety of Celery with turnip-shaped roots, which are white-fleshed, comparatively tender, and have the flavor of celery stalks. The seed may be sown in the open ground in April, and the young plants nursed in the same way as celery; but in planting out the ground is manured and dug, not trenched, and the plants are set in shallow drills 12 inches apart, watering freely. As the growth advances, draw the earth to the plants, by which the knotty roots will be blanched and made delicate and tender.

**Large Early Erfurt.** We have found this to be a great improvement on some of the older sorts of Celeriac, for while of equally good flavor, it attains a larger size. Pkt., 5c; oz., 15c; ¼ lb., 50c; 1 lb., \$1.50.

**Large Smooth Prague.** An improved form of Turnip-rooted Celery; round, smooth roots, with very few side roots. This is the largest variety, and one of the very best. Pkt., 5c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.40.

## CORN, SUGAR

German, Wefchtorn

Spanish, Maiz

French, Mais

One quart will plant 200 hills; 1 peck will plant 1 acre in hills

**Culture.**—Corn requires a good soil and a warm situation. Commence for first early by planting the early varieties about May 1, and if a continuous supply is wanted all summer, make plantings about two weeks apart from May 1 until the last of July, first planting early varieties, then later ones. Plant in rows 3 feet apart, and make the hills about the same distance apart in the rows. Five kernels in the hills are plenty. Cover about 1 inch deep for early, and a little deeper for late. Thin to three plants in a hill.

## EXTRA-EARLY SUGAR CORN

**Adam's Extra-Early.** Not a sugar Corn, but largely grown for early use, especially in the South. Pt., 10c; qt., 15c; gal., 40c; pk., 65c; bu., \$2.50; ear, 5c; doz., 30c.

**Golden Bantam.** Extremely early yellow variety of delicious flavor. Pt., 15c; qt., 25c; gal., 75c; pk., \$1.25.

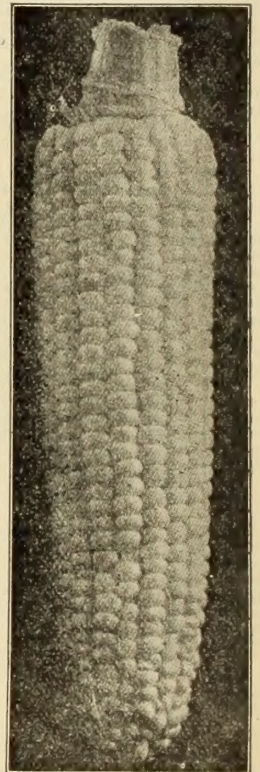
**Trucker's Favorite.** Not a sugar Corn. Very sweet and early. Pt., 15c; qt., 25c; gal., 65c; pk., \$1.25; bu., \$3.00.

## MEDIUM-EARLY SUGAR CORN

**Adam's Early.** Not a sugar Corn, but grown extensively all over the country for market purposes. Pt., 10c; qt., 15c; gal., 40c; pk., 65c; bu., \$2.50; ear, 5c; doz., 30c.

**Black Mexican.** One of the sweetest and best varieties; grains black when ripe, but when in condition for the table, cooks remarkably white. Pt., 15c; qt., 25c; gal., 75c; pk., \$1.25.

**Stabler's Early.** Large, white ears of finest quality; very desirable for both canners and gardeners. Pt., 10c; qt., 25c; gal., \$3.00.



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**Mammoth Early.** An earlier and smaller variety of the Late Mammoth. Pt., 15c.; qt., 25c.; gal., 65c.; pk., \$1.00; bu., \$3.25.

**Premo.** An early variety of unusual merit. The ears are large and the grain very sweet. It matures in 60 days, which makes it a most desirable sort. Pt., 10c.; qt., 20c.; gal., 65c.; pk., \$1.00; bu., \$3.50.

## LATE SUGAR CORN.

**Country Gentleman.** Very distinct from any other sort; sometimes yields as many as five ears on a stalk; cob very small, with deep kernels of pearly whiteness. This is considered the finest of all Sweet Corn; the quality is delicious, and will delight the most fastidious epicure. Pt., 15c.; qt., 25c.; gal., 65c.; pk., \$1.00; bu., \$3.50; ear, 5c.; doz., 40c.

**Late Mammoth.** The largest and latest variety; ears of immense size, grains large and broad; quality of the best. Pt., 25c.; qt., 25c.; gal., 50c.; pk., 90c.; bu., \$3.00; ear, 5c.; doz., 40c.

**Stowell's Evergreen.** The standard for quality, and the best-known variety! a favorite alike with canners and market men; remains a long time in condition suitable for boiling. Pt., 10c.; qt., 20c.; gal., 60c.; pk., 90c.; bu., \$3.25; ear, 5c.; doz., 50c.

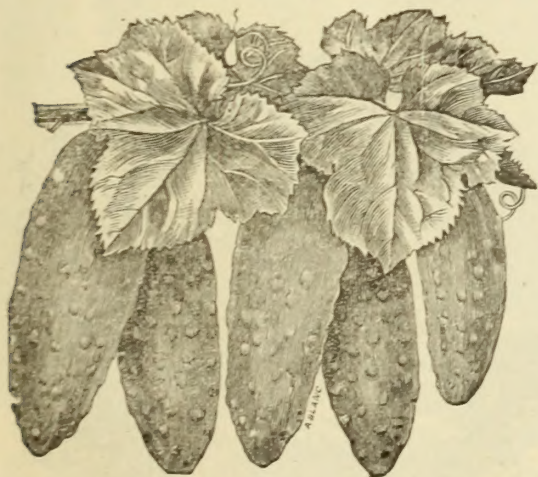
**White Evergreen Eugar Corn.** Pt., 10c.; qt., 20c.; gal., 65c.; pk., \$1.00; bu., \$3.50; ear, 5c.; doz., 50c.

## CUCUMBER

German, Gurfie                      Spanish, Pepino  
French, Concombre

One ounce will plant 50 hills; two pounds will plant an acre

**Culture.**—For earliest use, sow the seed in the hotbed or greenhouse in February or March, in warm loam, where the temperature is about 90 degrees; cover half an inch deep, and, when the plants are of fair size, transplant into hills (made in the greenhouse), four plants in a hill, so that when the weather permits the whole hill can be moved to the open ground by means of tins made for that purpose. Plant for general use in the open ground, about June 1, in hills 6 feet apart each way, and thin to 3 plants in a hill. Fine old manure (about 6 cords per acre) is sufficient; or, better still, plant on land from which a crop has been taken, and which was heavily manured for that crop. A sprinkling of dry plaster will keep off the striped bug.



**Jersey Pickling.** Used extensively by pickle manufacturers in New Jersey and Pennsylvania. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

**Long Green Improved.** Fine for pickling when small; also good for table use when about half grown. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

**White Spine, Arlington Improved.** One of the finest Cucumbers for forcing, and one of the most perfect in shape, size, color and quality; very brittle and crisp. Pkt., 5c.; oz., 10c.; ¼ lb., 20c.; lb., 60c.

**Early Fortune.** A very fine, early and productive. White Spine. Pkt., 5c.; oz., 15c.; ¼ lb., 25c.; lb., 80c.

**West Indian Gherkin.** The only genuine Gherkin. Small, oval and covered with spines; color light green; used exclusively for pickling. Pkt., 5c.; oz., 15c.; ¼ lb., 40c.; lb., \$1.50.

## COLLARDS, or COLEWORT

German, Blattertohl                      French, Chou  
Spanish, Cabu

One ounce will produce 3,000 plants

A variety of Cabbage known in different sections as "Cole" and "Colewort." It is extensively used in the South for "greens," where it continues in luxuriant growth all winter.

**True Georgia.** Used as "greens" mainly in the South and West. As the leaves are pulled off others grow in their places. Pkt., 5c.; oz., 10c.; ¼ lb., 25c.; lb., 60c.

## CORN SALAD

**Large Green Cabbage.** A small, hardy salad; used also as a substitute for lettuce; can be sown in September and wintered over the same as spinach. Pkt., 5c.; oz., 10c.; ¼ lb., 15c.; lb., 50c.

## ENDIVE

German, Engivie                      French, Chicoree  
Spanish, Endivia

**Culture.**—Endive is one of the best salads for fall and winter use. Sow for an early supply about the middle of April. As it is used mostly in the fall months, the main sowings are made in June and July. Plant 1 foot apart each way. When the plant has attained its full size, gather up the leaves and tie them by their tips in a conical form. This excludes the light and air from the inner leaves, which, in the course of from three to six weeks, become bleached.

**White Curled.** For early use; should be used when young. Pkt., 5c.; oz., 15c.; ¼ lb., 35c.; lb., \$1.25.

**Green Curled.** Same price as white.

## WATER CRESS (True)

**Water Cress.** Highly esteemed as a salad during the spring and fall. Also used as a garnish for meats during the winter. Seed may be started readily in pans or boxes of very moist earth, and the young plants transplanted to shallow water. Pkt., 5c.; oz., 30c.; ¼ lb., \$1.00; lb., \$3.00.

## EGGPLANT

German, Gierpanze                      French, Aubergine  
Spanish, Berengena

One ounce for 1,000 plants

**Culture.**—The Eggplant will thrive well in any good garden soil, but will repay good treatment. The seeds should be sown in hotbed or greenhouse in March or April, and when about an inch high potted in 2-inch pots. Plant out about June 1, 2½ feet apart. If no hotbed is at hand they can be grown in any light room where the temperature will average 75 degrees.

**Black Beauty.** The earliest large variety; color rich dark purple. Pkt., 10c.; oz., 25c.; ¼ lb., 90c.; lb., \$3.25.

**New York Improved Purple Spineless.** Similar to New York Improved Purple, except that it is entirely free from spines. Pkt., 10c.; oz., 25c.; ¼ lb., 90c.; lb., \$3.25.

## GOURD

One ounce will plant 25 hills

**Culture.**—Gourds are tender annuals, and should not be planted until all danger of frost is over, and not less than 6 feet apart each way, in good rich loam. Three plants in a hill will be sufficient to leave at the last hoeing.

**Dipper.** This like the Sugar Trough, has a thin but hard shell, and can readily be made to serve useful purposes. Oz., 15c.; ¼ lb., 50c.; lb., \$1.50.



## HERBS

## Sweet, Pot and Medicinal

Culture.—The seeds should be sown in spring, in shallow drills, 12 inches apart, and the young plants thinned out or transplanted to about 4 inches. They should be harvested on a dry day, just before the blossom develops, dried quickly and bottled, or closely packed in dry boxes, with the air entirely excluded.

	Pkt.	Oz.
Anis. Used for flavoring.....	\$0.05	
Balm. Very fragrant leaves.....	.05	\$0.10
Caraway. The seeds of this herb are used for flavoring and render satisfaction when devoted to this purpose.....	.05	.10
Catnip .....	.05	.30
Coriander. Seeds used for flavoring.....	.05	.10
Dill. Used for flavoring pickles.....	.05	.10
Morehound. Very useful in curing coughs.....	.05	.20
Lavender. Leaves very fragrant.....	.05	.15
Rosemary. Leaves very fragrant.....	.05	.40
Sage. A highly aromatic herb; most useful of all Savory, Winter .....	.05	.15
Sweet Basil. Leaves used for flavoring.....	.05	.15
Sweet Fennel. Seeds aromatic .....	.05	.10
Sweet Marjoram. Used as a seasoning.....	.05	.15
Summer Savory. Used as a culinary herb.....	.05	.10
Thyme. Used as a seasoning.....	.05	.25

## KALE, or BORECOLE

German, Blatter-Kohl      French, Chou Vert  
Spanish, Breton

One ounce will produce 3,000 plants

Culture.—Sow from the middle of April to the beginning of May in prepared beds; transplant in June, and treat in the same manner as for cabbage. Of all the cabbage tribe, this is



the most tender and delicate, and would be much more extensively grown than it is if its excellent qualities were generally known. The varieties are all extremely hardy, and are best when touched by frost.

**Dwarf Green Curled Scotch.** Rarely exceeding 18 inches in height, but spreading out under good cultivation to 3 feet in diameter; leaves beautifully curled and bright green. Oz., 10c; ¼ lb., 20c; lb., 50c.

**German Curled.** Price, 30c. per pound.

## KOHLRABI

(Turnip-Rooted Cabbage)

German, Kohl-Rabi      French, Chou-Rave  
Spanish, Col de nabo

One ounce will sow 200 feet of drill

Culture.—This vegetable, the popularity of which is rapidly increasing, combines the virtues of the turnip and cabbage, but excels both in nutritive, hardy and productive qualities. The seed may be sown in June, in rows 18 inches apart, and the plants thinned out to 8 or 10 inches in the rows.

**Early White Vienna.** Best for general table use; flesh tender and white. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

**Large Green, or White.** Good for table use and is also used for feeding stock. Same prices as White Vienna.

## LEEK

German, Lauch      French, Poireau  
Spanish, Puerro

One ounce will plant 200 feet of drill

Culture.—The Leek is very hardy and easily cultivated; it succeeds best in a light but well-enriched soil. Sow as early in the spring as practicable, in drills 1 inch deep and 1 foot apart. When 6 or 8 inches high transplant in rows 10 inches apart each way, as deep as possible, that the neck, being covered, may be blanched.

**Large London Flag.** The oldest and best-known and most largely grown variety. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

## LETTUCE

German, Lattich      French, Laituce  
Spanish, Lechuga

One ounce will sow 100 square feet, or 120 feet of drill.

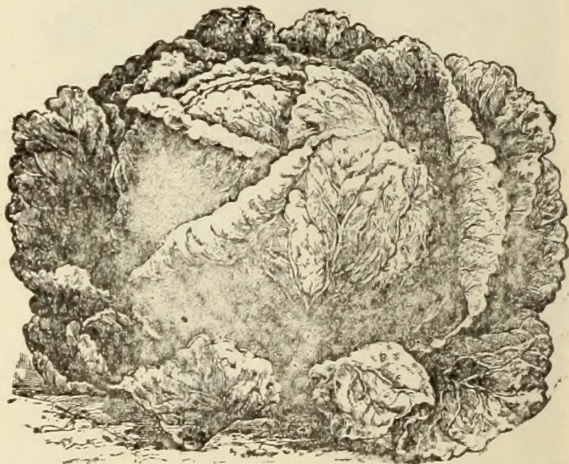
Culture.—Requires a rich, moist soil, and to be crisp and tender needs to be grown in cool weather. For winter use, sow in hotbeds every two weeks, at the rate of one ounce of seed to four sashes (a sash is 3 feet long by 6 feet wide); cover very lightly and transplant first to 3 inches apart each way, afterward to 8 inches. For garden or field, sow in rows, and cover one-fourth of an inch deep, and thin out to 12 inches apart in the rows. For New England, the White-seeded Tennisball, for cultivation under glass, and the Black-seeded Tennisball, for outdoor use, are the standard varieties.

**Big Boston.** A most desirable variety, either for forcing in cold frames or open ground planting; always produces large, solid, salable heads. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., 1.00.

**Boston Market.** One of the best for forcing under glass, as well as for outside use; forms fair-sized heads; edges of leaves slightly tinged with red. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00.

**Grand Rapids.** As a distinctly forcing and shipping Lettuce this variety undoubtedly stands at the head of the list; beautiful in appearance. Pkt., 5c; oz., 20c; ¼ lb., 40c; lb., \$1.25.

**Immensity.** New. The largest head Lettuce in the world. Tender, sweet and crisp. Pkt., 5c; oz., 20c; ¼ lb., 40c; lb., \$1.25.



**Prize-Head Early.** Leaves green and red, very thin, crisp and tender; one of the best for private use. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.00.

**Salamander.** Fine, compact heads, which resist summer heat admirably; very popular in some sections. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00.

**Simpson Black-seeded.** Nearly double the size of the Early Curled Simpson; leaves are delicate golden yellow; superior variety for forcing or sowing out-of-doors. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00.

**May King.** Heads extra large and solid; green outside, but heart clear yellow; very desirable. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

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**MELON, MUSK**

German, Melone                      French, Melon  
Spanish, Melon, Muscatel

One ounce will plant about 80 hills

Culture.—A rich, deep, sandy loam, well worked and highly manured with old rotten compost, is of the first importance. Plant when all danger of frost is over, in hills 5 to 6 feet apart each way; scatter a dozen seeds to a hill, and after they are out of danger from bugs, thin to three or four plants. When they have four or five rough leaves, pinch off the end of the main shoot, which will cause the lateral branches to put forth sooner. This will strengthen the growth of the vines, and the fruit will come earlier to maturity.

**SWEET AIR CANTALOUPE**

We know from what we have seen of this melon for the past three seasons that we cannot speak too highly of this melon. It is the sweetest, finest flavored, juiciest and best melon ever offered.

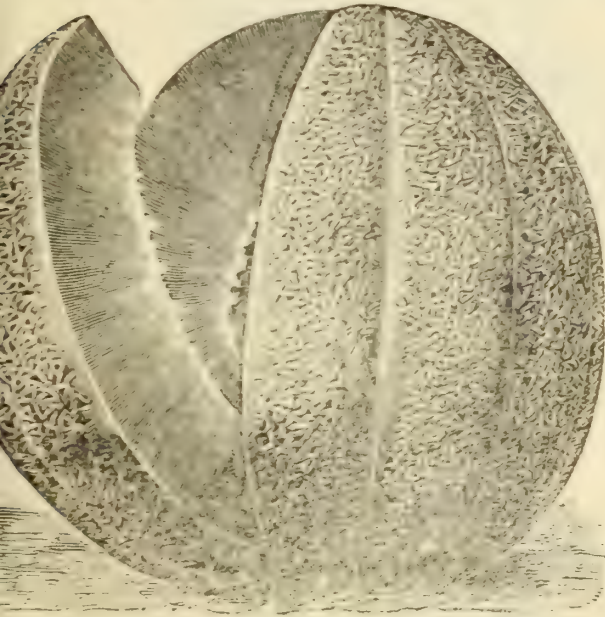
It is a little larger than the Rocky Ford, well netted, thick green flesh, small seed cavity. When the other standard sorts have been flat to the taste this has been perfect in sweetness.

It is prolific. The best to grow for profit; the best for table; the best for restaurant; what more can we say. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

Anne Arundel. An improvement on Baltimore, or Acme, of same shape and color, but twice as large. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00.

Baltimore, or Acme. This is the favorite melon in Baltimore markets, and is also known and highly esteemed by market men in New York and Philadelphia. It is early, oblong in shape; flesh green and very fine. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.

Emerald Gem. One of the very earliest varieties; fruit small, skin deep emerald green; flesh a handsome salmon-color and very thick; flavor most delicious; a splendid melon for hotels and restaurants. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.



Hackensack Extra Early Improved. A selection from an improvement on the old Hackensack, and similar in shape and appearance; nearly as large, and fully ten days earlier. One of the finest for market gardeners; quality perfect. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.

Paul Rose. This new melon is superior to all others as a market variety, and has few equals for the home garden. Fruit oval; flesh rich orange red. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.

Rocky Ford. An improved and oblong form of the Nettel Gem. A most excellent green-fleshed sort. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 75c.

Tiptop. Varies from round to slightly oblong; skin, pale green, covered with a handsome netting; flesh, rich, deep salmon-color and sweet and spicy in flavor. The flesh being thick, fine-grained and firm, makes this an excellent shipping melon. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.

Fine Netted Nutmeg. Small, very early and fine-netted; fruit round; flesh green and very sweet. Price, pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.

**MELON, WATER**

German, Waffermelone      French, Melon d'Eau  
Spanish, Zandia

One ounce will plant 50 hills

Culture.—Watermelons are cultivated in hills which should be 6 to 8 feet apart each way, and composed of light, moderately rich soil. The hills should be dug about 2 feet square, 18 inches deep, and half filled with well rotted manure, which must be thoroughly incorporated with the soil. Plant in May, ten seeds to a hill, and when the plants are well up, thin out to three. Cultivate until the vines cover the ground, and pinch the ends of the growing shoots to induce early fruiting.



Tom Watson—This melon has created quite a furore wherever grown, and we believe is unquestionably the best quality shipping melon in our list. It has a dark green rind, solid and luscious meat, ripening close up to the rind. The rind is very tough, making it an excellent melon for shipping long distances. Its flavor and fine qualities also commend it very strongly for the private grower. We believe it is destined to become one of the most popular melons on our list. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.

Eden. Similar in appearance to Kolb Gem and of even better quality. Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 50c.

Florida Favorite. Highly prized for its delicious flavor; large, oblong; rind dark green, with stripes of lighter green; ten days earlier than Kolb Gem. Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 50c.

Kolb Gem. Originated in Alabama, and more largely grown in the South than any other melon; as a shipping variety has no superior; rind, dark green, mottled; shape, nearly round; quality, superb. Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 40c.

Monte Cristo, or Gieckley's Sweets. Fruit oval and of medium size; skin dark green; flesh rich bright red, very sweet and tender. Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 50c.

Sweetheart. New, Globular in shape; skin very bright, mottled green; flesh bright red, firm and heavy, but crisp, melting and exceedingly sweet. Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 40c.

Triumph. New. Nearly round, large and an excellent shipper; skin dark green; flesh bright red. Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 40c.

Georgia Rattlesnake. An excellent market variety; large, oblong; rind dark, mottled and striped. Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 50c.

**ONION SEED**

German, Zwiebel                      Spanish, Cebbolla  
French, Oignon

One ounce will plant 100 feet of drill; 5 or 6 pounds in drills for an acre. For sets from 50 to 60 pounds should be sown to the acre, according to the richness of the soil.

Culture.—The Onion thrives best in a rather deep, rich, loamy soil, and, unlike most vegetables, succeeds well when cultivated on the same ground for successive years. The best culture requires that the ground be deeply trenched and manured the previous autumn, and laid up in ridges during the winter to pulverize. As early in the spring as the ground is in working order, commence operations by leveling the ground with a rake and tread it firmly; sow thinly in drills about one-fourth of an inch deep, and 1 foot apart; cover with fine soil, and press down with the back of a spade or a light roller. When the young plants are strong enough, thin gradually so that they stand 3 or 4 inches apart. Keep the surface of the ground open and free from weeds by frequently hoeing, taking care not to stir the soil too deeply or to collect it about the growing bulbs.

Prices in quantity on application

Large Red Wethersfield. Onion growers who prefer the red varieties will find our pedigree strain far surpassing the ordinary Red Wethersfield in size, productiveness and keeping qualities.

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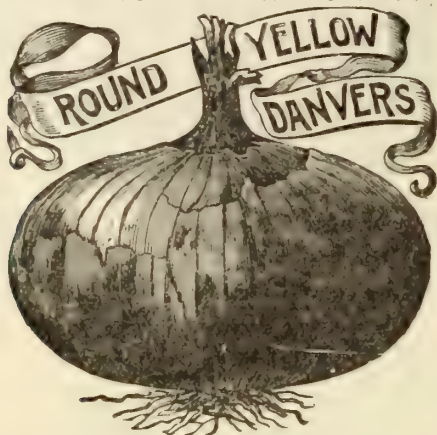
## ONION SEED—Continued

It is of the finest form, skin deep purplish red, flesh purplish white, much finer grained than many of the red sorts. Immense crops of this Onion are grown each season from our seed by some of the largest growers in the United States who realize the very highest prices for their crops. Pkt., 5c; oz., 20c; ¼ lb., 40c; lb., \$1.50.

**Prizetaker.** This variety of recent introduction, annually grows in favor. It excels every Onion now existing in beauty, size and productiveness, and equals the best quality, being mild in flavor as the imported Spanish Onions of our groceries. Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., \$1.50.

**White Portugal, or Silverskin.** A large, flat, white Onion of mild and pleasant flavor; hard and fine-grained, and a good keeper. Extensively sown for sets, and is also largely grown for pickling. Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$2.00.

**Yellow Globe Danvers.** Undoubtedly the best-known and most popular of all Onions; the earliest yellow variety; is entirely free from stiff necks. Globular in shape; has a small top. It is the most productive, producing as high as 1,000 bushels per acre, and will average on good soil with proper culture, 700 or 800 bushels. Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., \$1.50.



## ONION SETS

Prices on application

**White Onion Sets.** Grown from our choice strain of the Philadelphia White Silverskin seed.

**Yellow Onion Sets.** These will produce handsome well-ripened blubs of large size quite early in the summer.

## OKRA

German, Dcher

French, Gombo

Spanish, Quimbombo

One ounce will plant 100 hills

This is an annual from the West Indies, cultivated for its green seed-pods, which are used in soups or stewed and served like asparagus. It is highly esteemed in the South for making gumbo soup. The pods when young and tender should be sliced in sections, strung on a thread and hung up in the shade to cure like dried apples; can be used for soup at any time.

**Culture.**—Sow the seed thinly in dry, warm soil, in shallow drills 2 feet apart. After the plants are up, thin them out to 9 inches apart; hoe frequently, and draw a little earth to the stems as they grow. Gather the pods when quite green and about 1½ inches long.

**Early Dwarf White.** (White pods.) Pods extra long when fully matured measuring a foot in length; thick and fleshy; early and prolific. Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 40c.

**Long Green.** Pods long, green and ribbed, and a heavy bearer. Long Green same price as Dwarf White.

## PARSLEY

German, Peterfilie

French, Persu

Spanish, Perejil

One ounce for 150 feet of drill

**Culture.**—Parsley succeeds best in rich, mellow soil. As the seed germinates very slowly it should be sown early in spring, previously soaking the seed for a few hours in tepid water. Sow thickly in rows a foot apart and half an inch deep. For winter use, protect in a frame or light cellar, or a few plants may be placed in pots or boxes and kept in the house.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

## PARSLEY—Continued

**Champion Moss Curled.** An English strain with moss curled foliage and a very vigorous grower. A standard variety; desirable. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c.

**Emerald Dwarf Extra Curled.** Leaves finely cut and curly and bright green; good for home or market gardening. Same price as Moss Curled.

**Fine Double Curled.** A standard variety; plants bear an abundance of finely curled leaves; ornamental. Same price as Moss Curled.

## PEPPER

German, Pfeffer

French, Piment

Spanish, Pimiento

One ounce will produce 2,000 plants

**Culture.**—Grown largely for pickles. Sow in hotbeds early in April, and transplant to the open ground when the weather is favorable. They should be planted in warm, mellow soil, in rows, 18 inches apart. They may also be sown in the open ground when danger of frost is past.

**Chinese Giant.** New. The largest and finest mild red variety, Pkt., 5c; oz., 35c; ¼ lb., \$1.00; lb., \$3.50.

**Large Bell, or Bull Nose.** A favorite and well-known pickling sort; is early, large, mild, and thick-skinned. Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$2.00.

**Long Red Narrow Cayenne.** Pods slender, about 3 inches long and bright red; very pungent and productive. Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$2.00.

**Ruby King.** The best and most prolific mild red Pepper for market or family use; so sweet and mild they can be eaten raw like an apple; largest size. Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$2.00.

**Sweet Mountain, or Mammoth.** Large and mild-flavored; a well-known standard sort; color glossy red; rind thick and fleshy; popular with all growers for market. Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$2.00.

## PARSNIP

German, Pastinate

French, Panais

Spanish, Pastinaca

One ounce per 200 feet of drill; 5 to 6 pounds in drills for an acre



**Culture.**—Sow as early in spring as the weather will admit, in drills 15 inches apart, covering half an inch deep. When well up, thin out to 5 or 6 inches apart in the rows. Unlike carrots they are improved by frost, and it is usual to take up in fall a certain quantity for winter use, leaving the rest in the ground till spring, to be dug as required.

**Sugar or Hollow Crown.** A very reliable and favorite sort for general culture. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 50c.

## PEAS

German, Erbfein

French, Pois

Spanish, Guizante

One quart for 75 feet of drill or 3 bushels in drills for an acre

**Culture.**—Our trial of Peas is probably the most extensive on this side of the Atlantic, and it enables us to discard inferior sorts and to offer in the following list only the best varieties. Peas come earliest to maturity in light, rich soil.



## PEAS—Continued

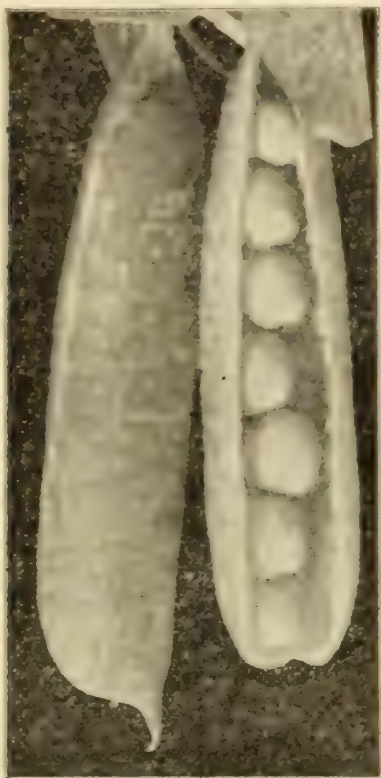
For early crop, a deep loam or soil strongly inclining to clay is best. For early crops, decomposed leaves or leaf-mold should be used; or, if the soil is very poor, strong manure may be used. For general crops, a good dressing should be applied, and for the dwarf-growing kinds the soil can hardly be too rich. When grown as a market crop, Peas are never staked; for private use, they are generally sown in double rows, and the tall varieties staked up by brush. For an early crop, sow as soon as the ground can be worked, and make repeated sowings every two weeks for succession. After the first of June sowing should be discontinued until the middle of August, when a good crop may sometimes be secured by sowing an extra-early sort for fall use.

All marked thus (\*) are wrinkled varieties

### EXTRA-EARLY DWARF PEAS

**Bliss American Wonder.** One of the earliest wrinkled sorts and one of the most popular. Height,  $\frac{1}{4}$  ft. Pt., 15c; qt., 30c; gal., \$1.00; pk., \$2.00; bu., \$7.00.

**Sutton's Excelsior.** New. As early as American Wonder, with much larger pods and more prolific. Height, 1 ft. Pt., 20c; qt., 35c; gal., \$1.25; bu., \$8.00.



### EXTRA-EARLY PEAS (Not Dwarf)

**Alaska.** The earliest blue Pea; a fine sort: popular with canners and market gardeners; ripens uniformly. Height,  $2\frac{1}{2}$  ft. Pt., 20c; qt., 35c; gal., \$1.25; pk., \$2.00; bu., \$7.00.

**Ameer.** New. Extra early blue Pea; large, dark green pods; color of Gradus. Height, 3 ft. Pt., 25c; qt., 40c; gal., \$1.50; pk., \$3.00; bu., \$10.00.

**First and Best.** Very early and prolific; a standard variety. Popular with canners. Height,  $2\frac{1}{2}$  ft. Pt., 15c; qt., 25c; gal., 75c; bu., \$5.00.

**Gradus, or Prosperity.** Without doubt the finest extra early Pea yet introduced; it is in condition to pick about four days after Rice's Extra Early. The pods are very large, and well filled with large, wrinkled, deep green peas of the very finest quality. Height, 2 ft. Pt., 20c; qt., 40c; gal., \$1.50; pk., \$3.00; bu., \$10.00.

**Telephone.** Pods very large; filled with immense peas of first-class quality; one of the very finest yet introduced. Height,  $4\frac{1}{2}$  ft. Pt., 20c; qt., 35c; gal., \$1.25; pk., \$2.00; bu., \$7.50.

**Dwarf Telephone (Carter's Daisy).** Excellent new variety; large, well-filled pods; peas of fine flavor. Height,  $1\frac{1}{2}$  ft. Pt., 25c; qt., 40c; gal., \$1.50; pk., \$2.50.

**Dark Pod Telephone.** Pod very large and of very dark green color, making it excellent for market purposes. Immense peas of first-class quality; one of the finest yet introduced. Pt., 20c; qt., 35c; gal., \$1.25; pk., \$2.25; bu., \$8.00.

**Marrowfat, Black-Eyed.** (Hand-picked stock.) Is very hardy and prolific. Height, 5 ft. Pt., 15c; qt., 25c; gal., 75c; pk., \$1.25; bu., \$4.50.

**Marrowfat, Large White.** (Hand-picked stock.) Cultivated very extensively for the summer crop. Height, 4 ft. Pt., 15c; qt., 20c; gal., 75c; pk., \$1.25; bu., \$4.50.

**Admiral Dewey, 60 Days.** Mammoth pods. Very showy; 48 inches tall. Pt., 20c; qt., 35c; gal., \$1.25; pk., \$2.25; bu., \$8.00.

## POTATOES, for Seed

German, Kartoffeln

Spanish, Bataas

French, Pomme de Terre

In drills 3 feet apart, 12, to 14 bushels to the acre. One peck will plant about 125 hills

**Culture.**—The Potato, like all robust-growing vegetables, can be grown with varying success on soils of all kinds and in all conditions of fertility, but the soil best suited to it is a sandy loam. In all heavy soils it is more subject to disease, and the flavor, also, is much inferior. In breaking up good pasture land, the decaying sod answers sufficiently well for the first year in lieu of manure. Manure is applied either in rows or hills, or broadcast over the ground and plowed in—the latter in most cases being preferable. If the soil is good, but little manure is required. In highly enriched soil the plants are more liable to disease than when grown in soil that is naturally good. The best fertilizers are those of a dry or absorbent nature, as plaster, lime, superphosphate of lime and bone dust. For wet soils these are particularly beneficial, as they not only promote growth but prevent disease. Plant as early in spring as the ground can be had in fair working order, in hills or ridges about 3 feet apart, covering in light, warm soils about 4 inches deep, but in cold, wet situations  $2\frac{1}{2}$  or 3 inches will be sufficient.

Prices of all varieties of Potatoes on application.

### EXTRA-EARLY POTATOES

**Early Ohio.** Now widely known and deservedly one of the most popular sorts. It has the advantage of being fit for use and sale even before fully ripe. A few days earlier than the Early Rose, and similar in color and habit of growth. Quality, dry and mealy.

**Early Rose.** Our stock of this popular variety is in its original purity, the planting stock having been renewed annually for several years past from Houlton, Maine, where it is very popular and about the only variety planted for market.

**Early Six Weeks.** Undoubtedly the earliest Potato grown; similar to Early Ohio in every respect, but claimed by the originator to be earlier than this standard well-known sort. We recommend this for first-early planting.



**Irish Cobbler.** A variety which becomes popular wherever tried on account of its earliness, handsome appearance and excellent quality. Tubers are round and smooth, skin creamy white and often netted; flesh white. We do not hesitate to recommend this variety.

**Double X Early.** One of the earliest and best Potatoes grown. No other Potato has more friends nor a better reputation than the Double X around Washington and vicinity. The tubers are oblong-oval, round at the seed end, with eyes that are almost even with the surface. An excellent keeper, very productive, of fine quality, and has proved to be a most valuable addition to our list of extra early varieties.

### MEDIUM-EARLY AND LATE POTATOES

**Green Mountain.** The best second early potato now on the market; fine yielding; fine flavor; fine appearance. Free from blight and rot. Keeps well, and is always ready for the table.

**McCormick, or German Peach Blow.** Should be planted in July and early August. It is one of the heaviest yielders, and in good season makes a fine table sort.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

## PUMPKIN

German, Kurbis

French, Potiron

Spanish, Calabaza

One pound will plant from 200 to 300 hills

**Culture.**—The common practice is to drop two or three seeds in every third or fourth hill in the cornfield, but if cultivated on a large scale the seed may be sown in hills 8 feet apart each way, four plants to each hill, and otherwise treated in the same manner as recommended for melons or cucumbers.

**Connecticut Field.** This variety is most extensively used throughout New England and New York for field culture; is generally planted with corn. Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 25c.

**Cushaw, or Crookneck.** Grows to a very large size, sometimes attaining a weight of 70 pounds, and resembling in shape the Winter Crookneck squash; of light cream-color, sometimes slightly striped with green. Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 75c.

**Large Cheese, or Kentucky Field.** Flat and round like a cheese; color of skin deep orange, flesh somewhat lighter; one of the best for table use. Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 40c.

**Sweet, or Sugar.** This is a small, round, and very prolific variety; skin and flesh deep orange-yellow; very fine-grained, sweet and fine for pies. The pie Pumpkin of New England. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 65c.

**King of the Mammoths.** This is truly a giant among Pumpkins; specimens have been grown to weigh 250 pounds. In shape it is round, flat and slightly ribbed; color of skin and flesh bright golden yellow and of good quality, making excellent pies, but grown principally for stock; keeps well. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00.

## RADISH

German, Rettig, Radies

Spanish, Rabano

French, Radis, Rave, Petite Rave

One ounce will sow 100 feet of drill

**Culture.**—The soil for Radishes should be very rich, light and mellow, well broken by digging, as their tender and mild qual-



ities depend much upon their rapid growth. For very early use, sow in gentle hotbeds in February, and in the open air as soon as the ground can be worked, at intervals of ten or twelve days for a succession as long as they may be wanted. The winter varieties should be sown in August, lifted before severe frost, and stored in the cellar.

**Long Cincinnati Market.** An improved strain of the well-known Long Scarlet Short-Top. An excellent variety. Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 40c.

**Olive-Shaped, French Breakfast.** Pink color, olive shape, white-tipped, and the favorite variety in the markets of Paris; popular everywhere. Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 50c.

**Vick's Scarlet Globe.** One of the very earliest Radishes in cultivation; equally good for forcing or open culture in spring and early summer; color a beautiful scarlet; crisp, juicy and tender. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 60c.

**Long Icicle.** The finest white variety; very early. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c.

**White Strasburg.** One of the best of the long summer sorts; roots are long, handsome and tapering, and both skin and flesh pure white; flesh firm, brittle, tender retaining these qualities when roots have become old and large. Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 40c.

## FALL, or WINTER RADISH

**Half-Long Black Spanish.** Intermediate between Long and Round Black Spanish. Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 40c.

**Turnip, Crimson Giant.** Extremely large, but never pithy; suitable for forcing or open culture; very tender and crisp. Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 50c.

## SPINACH

German, Spinat

French, Espinard

Spanish, Espinaca

One ounce for 100 feet of drill; 10 to 12 pounds in drills for an acre

**Culture.**—This is a very important crop in our market gardens, and is one of the most easily managed of all vegetables, requiring but little culture, and may be had fit for use the entire season. The main crop is sown in September. It is sometimes covered up in exposed places with straw or salt hay during winter, which prevents it from being cut by frost; but in sheltered fields there is no necessity for covering. For summer use it may be sown at intervals of two or three weeks from April to August. Spinach is best developed and most tender and succulent when grown in rich soil.

**Bloomsdale Savoy-leaved.** A heavy cropper, of fine quality and very hardy; succulent leaves, curled and crinkled like a Savoy cabbage; hardier and most productive sort. Oz., 5c; ½ lb., 10c; lb., 15c. Five to 10 lbs., 12c per lb.

**Long-standing Thick-leaved.** Stands the longest before running to seed; dark green. Grown especially for us in Holland. Same prices as Savoy.

## SALSIFY, or OYSTER PLANT

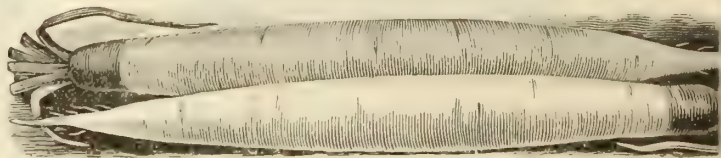
German, Bodsbart

French, Salsifis

Spanish, Ostra vegetal

One ounce will sow 50 feet of drill

**Culture.**—Sow the seed in light, deep soil, early in spring, in drills 12 inches apart and 1 inch deep, thinning out the young plants to 4 or 5 inches. The roots will be ready for use in



October, when a supply should be taken up and stored like carrots. Those remaining will suffer no injury by being left in the ground till spring, but should be dug up before commencing their growth.

**Mammoth Sandwich Island.** We consider this the largest and most profitable Salsify in cultivation; roots are two to three times the size of the ordinary Salsify, and of more agreeable flavor. It is pure white in color, and invaluable to market gardeners. Pkt., 5c; oz., 10c; ¼ lb., 35c; lb., \$1.00.

## SUNFLOWER

Persons wishing to purchase in quantity will please write for special prices

**Mammoth Russian.** The standard large-growing variety, which is used largely for feeding poultry. 10c per lb.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE



## SQUASH

German, Kurbik

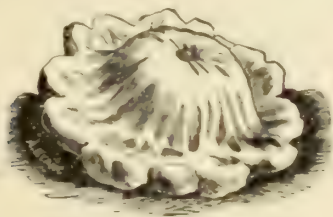
French, Cource

Spanish, Calabaza

One ounce Early will plant 50 hills; 1 ounce Marrow, 25 hills

Culture.—The plants are very tender and sensitive to cold and planting must be delayed until settled, warm weather. The general principles of culture are the same as those given for cucumbers and melons, but the plants are less particular as to soil. The summer varieties should be planted 4 feet apart each way, and the winter sorts 8 feet. Three plants are sufficient for a hill. Care should be taken not to break the stems from the Squashes intended for winter use, as the slightest injury will increase the liability to decay.

**Boston Marrow.** Fine fall variety; oval, bright orange; flesh yellow and firm; best for pies, and also for canning. Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 50c.



White Bush Scalloped

**Early White Bush Scalloped.** A standard summer variety; good either for home or market garden. Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 50c.

**Giant Summer Crookneck.** Double the size of the ordinary Crookneck and very warty, but similar in other respects. Their handsome appearance commands an extra price in the market. Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 50c.

**Improved Hubbard.** The well-known and standard late variety; our strain is excellent. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.

## TOMATO

German, Liebesapfel

French, Tomato

Spanish, Tomates

One ounce will produce 1,500 plants

Culture.—The Tomato is raised from seed, which should be sown in the hotbed about February 20, and continuous sowings



made until April 1, according as the plants are wanted for use. When the plants are about 2 inches high, transplant to 4 inches apart; and, after three or four weeks, transplant from the hotbed into a coldframe, setting the plants 8 inches apart each way. (A coldframe is simply a low wooden frame covered with glass, used to protect such plants as are not sufficiently hardy to withstand our winters.) Keep the plants cool, so as to make them stocky. Set out in the open ground about June 1, in well-enriched soil, setting the plants 5 feet apart each way.

**Acme, Early.** Well known and generally cultivated; early, smooth; ripens evenly; color purplish red. Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., \$1.50.

**Beauty.** (Livingston's.) Large, smooth, pinkish red; thick flesh, regular form. Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., \$1.50.

**Sparks' Earliana.** New. Claimed to be the earliest; large, smooth, red; very prolific. Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$2.00.

**June Pink.** New. Very early; of medium size, round, smooth and very solid. Color, pink. Pkt., 5c; oz., 25c; ¼ lb., 75c; lb., \$2.50.

**Livingston's Globe.** New. Fruit large, always firm and smooth; color rose, tinged with purple. Pkt., 5c; oz., 25c; ¼ lb., 75c; lb., \$2.75.

**Matchless.** Very large, smooth, solid, and fine-flavored; cardinal red. Pkt., 5c; oz., 25c; ¼ lb., 75c; lb., \$2.00.

**New Stone.** A great favorite with canners; the heaviest and most solid-fruited of the large Tomatoes of good quality. Our stock is distinctly superior to most of that offered under this name, being more uniform, better colored and larger. Fruit, round; appleshaped, very large, deep red, and astonishingly heavy. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.50.

**Pear-Shaped Red.** Used for preserves and to make "tomato figs." Fruit, bright red; distinctly pear-shaped, and with a peculiar flavor. Pkt., 5c; oz., 25c; ¼ lb., 75c; lb., \$2.50.

**Pear-Shaped Yellow.** Similar to Red Pear-Shaped, except in color. Pkt., 5c; oz., 25c; ¼ lb., 75c; lb., \$2.50.

**Ponderosa.** Very large, solid and of good flavor; specimens have been grown to weigh 4 pounds; color, bright red; very few seeds. Pkt., 5c; oz., 25c; ¼ lb., 75c; lb., \$3.00.

**Trucker's Favorite.** The finest large purple-fruited sort. Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., \$1.50.

## TURNIP

German, Rube

French, Navet

Spanish, Nabo

One ounce will sow 150 feet of drill; 2 pounds will sow an acre

Culture.—For early use, sow as soon as the ground can be worked in spring, in drills 15 inches apart, and thin to 8 inches apart as soon as the plants are large enough to handle. For succession, sow at intervals of a fortnight until the last week of July, from which time until the end of August sowings may be made for main and late crops. The sowings should be made just before rain if possible, a rapid growth being important.



**Amber Globe.** Excellent for table use or feeding stock; flesh, yellow, firm and sweet. Pkt., 5c; ¼ lb., 10c; lb., 30c.

**Extra Early Purple-Top Milan.** The earliest Turnip in cultivation, and a splendid variety; bulb, white, flat, of medium size, with a bright purple top; one of the sweetest and finest-flavored of summer sorts. Pkt., 5c; ¼ lb., 35c; lb., \$1.00.

## TURNIP—Continued

**Red, or Purple-Top Strap-leaved.** The most widely cultivated and best known variety. Used largely for sowing broadcast among corn and potatoes. It is round and flat, white on the bottom and a reddish purple above ground, and a very quick grower. Though used for stock-feeding, it is esteemed as a fine table variety. Pkt., 5c;  $\frac{1}{4}$  lb., 10c; lb., 30c.

**Red or Purple Top White Globe.** Quite similar to Purple-Top Strap-Leaf, excepting in shape, being almost a perfect globe, and grows to a large size; immense cropper. Pkt., 5c;  $\frac{1}{4}$  lb., 10c; lb., 30c.

**Rice's Improved Golden Ball.** One of the sweetest and most desirable yellow-fleshed varieties; of medium size, a perfect globe shape, with firm, hard, yet rich and sweet flesh; it has no equal as a table variety, and keeps well. Pkt., 5c;  $\frac{1}{4}$  lb., 15c; lb., 40c.

**Yellow Aberdeen.** (Purple-Top.) A very handsome Turnip. Bulbs round and flat, deep reddish purple on top and pale yellow on the bottom; flesh pale yellow, very tender and fine-flavored. Pkt., 5c;  $\frac{1}{4}$  lb., 15c; lb., 35c.

**Yellow Amber Globe.** A splendid sort for general crop; grows large; a good keeper, with bright yellow flesh. Pkt., 5c;  $\frac{1}{4}$  lb., 10c; lb., 30c.

**Cow-Horn** (large Cropper). This variety is pure white, excepting a dash of green at the crown, and in shape is long like the Carrot. Excellent for stock. Pkt., 5c;  $\frac{1}{4}$  lb., 10c; lb., 30c.

## SWEDISH, or RUSSIAN TURNIP (Rutabaga)

One ounce will sow 150 feet of drill; 2 pounds will sow an acre. Culture.—Should be sown from the 20th of June to the middle of July, in drills 2 feet apart, and thinned out at the first working to 10 inches between the plants. Flesh close-grained, hard will endure considerable cold. The roots are best preserved in a pit or cellar during winter, and are excellent for the table early in spring. Pkt., 5c;  $\frac{1}{4}$  lb., 15c; lb., 40c.

## SWEET PEAS

### The Beautiful and popular Flower of the Day

Culture.—As early as the ground can be worked in the spring make a trench 6 inches deep in rich soil, sow the seed in the bottom, covering not more than 2 inches deep; as the plants grow, fill in the earth around them and see that some suitable support is provided for them to run upon. Flowers must be picked before pods form, otherwise vines will not long continue to blossom.

**Burpee's Choice Mixed.** Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 40c.

## NASTURTIUMS

**Choice Mixed Tall.** Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 75c.  
**Choice Mixed Dwarf.** Same price as Tall.

## Clover and Grass Seed

### Sold at Market Prices

In offering field seeds to the trade, we fully appreciate the importance of pure, clean seed, and have endeavored to secure only such seed that is of the highest standard. We offer you high-grade, re-cleaned seed at the lowest prices for seed of equal quality.

**Medium Clover Seed.** A very valuable crop for pasture and hay, a great soil enricher when turned under.

**Alfalfa.** A very profitable crop for every farmer. Can be cut three or four times a year. Yields a heavy crop.

**Sapling, or Mammoth Clover.** Grows much larger than the common clover and will generally last much longer.

**White Dutch Clover.** It forms a very close herbage and remains green throughout the season, making it one of the best varieties for lawns. It is also an excellent food for bees.

**Crimson Clover.** An annual clover which produces a very early and abundant hay crop. Is also a great land improver, as the roots are great nitrogen absorbers.

**Orchard Grass.** A most excellent grass for pasture and hay. It withstands dry weather better than almost any other grass. Can often be cut twice in a season.

**Alsike.** A white clover which grows very tall. It is a very valuable crop, especially for dairy farms.

**Kentucky Blue Grass Seed.** Adaptable to most any sort of soil. Furnishes an abundance of rich, sweet food for all kinds of stock. Will last for years when a good sod is once formed.

**Red Top, or Herd Grass Seed.** Very hardy and well adapted to low, damp lands, but will grow anywhere. Is fine for pasture.

**Timothy.** There is no grass more valuable for hay, especially in the North. Especially adapted to moist, loamy soils. Is too well known to require a description.

**Millet, German.** Produces abundantly and makes an excellent feed for stock.

**Special Lawn Grass Mixtures.** Our experience with this mixture impels us to say that we have never seen a better one. Has given general satisfaction to our many customers. If you want a beautiful, permanent lawn, use our mixture and you will not be disappointed.

## SPECIALLY SELECTED SEED CORN FOR FIELD CULTURE

### OF THE FINEST QUALITY

**Boone County Prize Winning Stock.** We have secured from an expert corn grower of the State of Maryland a special selected stock of this corn, specially grown for seed purposes for securing the best development of ear and the largest yielding of corn. \$1.75 per bushel.

**Improved Golden Dent.** This is now the standard variety in many of the corn-growing sections of the Middle West. Ears average nine to ten inches long, tapering slightly toward tip, are about six inches in circumference, contain 16 to 20 rows and are remarkably uniform. Kernels light yellow, deeply dented, and well placed on a cob of medium size. Usually matures in 110 to 115 days. Price, \$1.75 per bu.

**Improved Leaming.** A very popular and productive variety. On good land the stalks grow tall, producing two good ears to each stalk. The ears are long, with small red cob well filled with grains of medium size, of a rich golden color. It ripens in from 100 to 110 days, and makes a good crop even in dry seasons. Price, \$1.75 per bu.

**Hickory King Corn.** This has the largest grains with the smallest cob of any white corn. So large are the grains and so small the cob that on an ear broken in half a single grain will almost completely cover the cob section. Of strong growth, the stalks take a firm hold in the ground and stand upright. It yields splendid crops on light soil, and is undoubtedly the most productive white field corn for the South. \$1.75 per bu.

**Burpee's Golden Beauty.** It is the largest grained and hand-some yellow corn we have ever seen. The ears have brightest golden-yellow grains, of remarkable size and completely filled out to the extreme end of the cob. The cobs are unusually small. \$2.00 per bu.

**Cock's Prolific.** White, flinty; unexcelled for meal or hominy. Exceedingly productive, bearing four and five ears to a stalk, making it one of the best ensilage corns on the market.

Prices on other corn on application.

**Choice Western White Seed Oats.** Selected seed of choicest qualities, for winter and spring sowing.

Prices upon application.

## FODDER AND SOILING PLANTS

### COW PEAS (The Great Soil Improver)

Make Poor Land Rich, Good Land Productive, and Enrich the Soil

Green crops plowed under are one of the best and cheapest ways of improving the soil. For this purpose the cow pea is most popular, especially for medium or light soil. They should be sown in May or June, at the rate of  $1\frac{1}{2}$  bushels to the acre, and plowed under as soon as they have attained their full growth. There is no surer or cheaper means of improving poor soil than by sowing cow peas.

### COW PEAS FOR HAY

If planted early, say by middle of May, in the central corn belt section, a crop can be cut and cured for hay the same as clover, then the stubble, in a short time, will put out a new growth to be turned under in the fall as a fertilizer.

The best varieties of Cow Peas for all purposes are the following:

**Southern Black Eye Cow Pea.**  
**Southern Black, or Ram's Horn.**  
**Whip-Poor-Will, Clay and New Era....**

### CANADA FIELD PEAS AND OATS FOR FODDER

These make a fodder and hay which double the production of milk.

### SOJA OR JAPANESE SOY BEAN

The demand for the Soja Beans has grown remarkably of late years. Their great value is as a forage crop, for fertilizing the soil and for pasturing or feeding the green fodder much in the same way as the cow pea.

### SAND OR WINTER VETCH

For forage and fertilizing purposes; it succeeds and produces good crops on poor, sandy soils as well as on good lands, growing to a height of 4 to 5 feet. It is perfectly hardy throughout the United States, remaining green all winter.

### EARLY AMBER SUGAR CANE

The high value of Northern grown sugar cane for fodder and ensilage is becoming rapidly known. When fed down young as a pasture it grows rapidly again. The seed and fodder is valuable as food for horses and cattle.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE



**TRUE DWARF ESSEX RAPE**

Dwarf Essex Rape is largely grown on account of its rapid growth, producing 25 to 30 tons of green forage to the acre. It grows to a height of 3 feet and covers the surface so densely as to smother out all weeds. While unequaled as a pasture for sheep, as a food for all cattle, calves or pigs, it is without a rival, its fattening properties being twice as great as clover, making a much relished food from May to December.

**WEBER'S IMPROVED EVERGREEN**

The Best Broom Corn In Cultivation

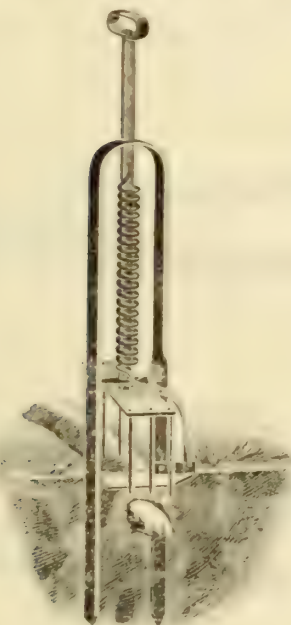
**MAMMOTH RUSSIAN SUNFLOWER****TEOSINTE (Reana Luxurians)**

This gigantic Gramma will furnish a continuous daily supply of most nutritious green food for horses and all kinds of cattle all through the Summer. It also makes splendid dry fodder, yielding enormously, and being more nutritious and better relished by all stock than corn fodder. It stools out enormously after being cut.

Prices on application.

The cost of the very best seed is so small, compared with the value of the growing crops, that sensible planters realize that they cannot afford to risk seed of doubtful pedigree, and we know just as well that we cannot afford to risk our hard-earned reputation by selling seed of doubtful character.

## Horticultural Tools

**MOLE TRAPS****THE REDDICK**

Made of Steel, Heavily Tinned, Rust Proof

Price..... 75c

**LITTLE GIANT, SELF-SETTING**

Self-setting by pressing down on lever. A very convenient feature found on no other trap. Made from best spring steel, thoroughly galvanized. Simple and durable in its construction.

Price..... 75c

**STEEL DIBBLES**

For transplanting plants. By far the best thing for the purpose ever introduced. Right angle, polished steel.

Price..... 35c

**HAND WEEDERS**

A very handy and useful little instrument; made of malleable iron; tinned.

Price..... 15c

**GARDEN TROWELS**

Socket handle; malleable blade.

Price..... 15c

Sixteen gauge tool; 6-inch blade; has a socket handle that will not come out in dry weather.

Price..... 25c.

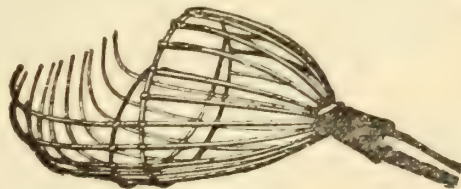
**THERMOMETERS**

A nice, large advertising thermometer, 24x6 inches.

Price..... 35c

House thermometer

Price..... 25c

**FRUIT PICKER**

The Pennsylvania; made of steel wire, heavily tinned.

Price..... 25c

**TREE PRUNERS**

4 feet long.....	\$0.75
6 feet long.....	.85
8 feet long.....	1.00
10 feet long.....	1.10
12 feet long.....	1.25
Extra knives .....	20c each

**DETROIT TREE PRUNERS**

6 feet long.....	\$2.40
8 feet long.....	2.40
10 feet long.....	2.60
12 feet long.....	2.60

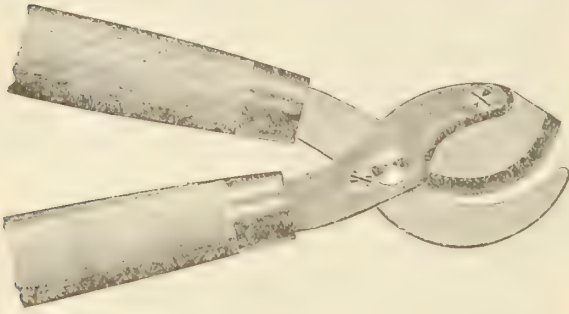
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## DISSTON PRUNING SAWS

Double edge, 20 inches long.

Price.....\$1.00



## SCYTHES



English, 36 and 38 inches.....\$1.25  
German, "Hand Mate".....1.15  
American, 36 inches......80  
Weed......80  
Bush......80

## GRASS HOOKS (Or Cycle)

Price, English.....40c  
Price, American.....25c

## CRONK'S PRUNING SHEARS

36 inches long, 2 handles.

Price.....\$1.25

## HAND PRUNING SHEARS "California Pattern"

For grape vines, rose bushes, etc. Malleable handle; steel blades; nickel-plated flat spring.

Price.....75c

## HEDGE SHEARS

English; 2 handles. 12-inch notched blades.

Price.....\$2.00



California pattern Gun Metal Shear. Same as above.

Price.....50c  
Malleable handle; steel blade, with coil spring.

Price.....25c

## GRASS SHEARS

7½-inch blades. American.

Price.....30c

## ASPARAGUS KNIFE



No. 2 Iron Age Curved Steel blade, highly polished.

Price.....40c

## SCYTHE STONE

English Round.....15c

Darby Creek.....10c



No. 1 Iron Age flat polished steel blade.

Price.....30c

# Florists' and Garden Tools

## GRAFTING WAX

¼-lb. Sticks.....10c  
½-lb. Sticks.....15c  
1-lb. Sticks.....25c

## LAWN RAKES

Automatic Self-Cleaning; 22 teeth, wooden.

Price.....60c

Wood Rake.

10 teeth.....15c

20 teeth.....25c

Regular steel.

12 teeth.....50c

14 teeth.....60c

16 teeth.....65c

18 teeth.....75c

## WATERING POTS

Heavy Galvanized Steel.

4-qt. size.....50c

6-qt. size.....60c

8-qt. size.....65c

10-qt. size.....75c

12-qt. size.....80c

16-qt. size.....90c

## Steel Bow Rakes

11 teeth.....65c

13 teeth.....75c

15 teeth.....75c

15 teeth.....85c

## GLAZING POINTS

"Peerless," the finest glazing point on the market; glass cannot slip; no rights or lefts to bother with.

Per 1,000.....60c

## Malleable Rakes

8 teeth.....20c

10 teeth.....25c

12 teeth.....30c

14 teeth.....35c

16 teeth.....40c

PRICES SUBJECT TO CHANGE WITHOUT NOTICE



## FORKS

Manure, Extra Heavy, diamond tine, D handle.	
4-tine .....	\$1.25
5-tine .....	1.40
Plain ferrule .....	50c
Acme .....	85c
Keen K .....	85c
Hay Forks, 6-foot straight handle.	
3-tine strap ferrule .....	75c
2-tine wheat fork .....	65c
Stone Forks, D handle, any opening	
Prices .....	\$1.75 to \$2.25

## HOES

Regular field and garden; best steel; solid socket.	
Riveted Sheet Steel Hoes	
7-inch .....	50c
8-inch .....	60c
Mortar Hoes	
10-inch blade, solid shank .....	75c
Mortar Mixing Hoes	
2 holes in blade, 10-inch .....	75c
Garden Mattock, For garden and other light work.	
14x2 1/2 in. blade .....	50c

## Onion Hoes

Heavy steel; riveted shank; 2-prong or 1-prong.	
Price .....	.25c and 35c
Potato, Stone and Manure Hooks.	
4-tine steel potato hook .....	50c
5-tine steel potato or manure hook .....	60c
4-tine steel stone hook .....	75c

## SPADES

Ames, long handle .....	\$1.25
Ames, D handle .....	1.25
Harlan steel, long handle .....	.75
Harlan steel, D, long handle .....	.75
K. K. D. Handle .....	1.00

## Spading Forks

Heavy angular tines.	
Polished steel .....	\$0.75
Keen Kutter, extra fine .....	1.00

## SHOVELS

## Square or Round Point

Ames, D handle .....	\$1.00
Ames, long handle .....	1.00

Harlan, D handle .....	\$0.75
Harlan, long handle .....	.75

## SCOOPS

socket, high carbon steel

No. 2 .....	60c
No. 3 .....	65c
No. 4 .....	70c
No. 5 .....	75c
No. 6 .....	80c
No. 7 .....	85c
No. 8 .....	90c

Special prices on dozen lots. ..  
Wire Potato or Corn Scoop...\$1.50  
Malleable Potato or Corn Scoop 1.25



## POST HOLE DIGGERS

Keen Cutter, double handle .....	\$1.50
Samson, one handle .....	2.50
Eureka, split handle .....	1.60
Lock Lever .....	1.50
Keen Cutter, 8-in. Post Hole	
Auger .....	2.50
Steel Post Spade and Rammer .....	1.00

## AXES

In Axes we carry the best lines only. We aim to sell only those we know to be first class in every respect and that have an established reputation.

Kelly Perfect .....	\$0.85
Kelly Flint Edge .....	.85
Red Warrior .....	.75
Keen Kutter, "Warranted" .....	1.00
Jim Dandy .....	.75

## HANDLED AXES

Keen Kutter, "warranted" .....	\$1.50
Keen Kutter, hand forged .....	1.75
Kelly Perfect .....	1.10
Kelly Perfect (boy size) .....	.75

## SPRAYING OUTFITS

For small orchards of a few trees or a few acres, a good barrel pump will meet every requirement, and in fact where only low grade of labor can be secured, some prefer to use several barrel pumps rather than a power outfit.

We have devoted much time to the study of practical barrel sprayers, and it is with the utmost confidence we list our "Pomona" as first in our complete line. It is unusually powerful, fully capable of supplying four leads of hose and eight nozzles. The working parts, including the plunger, plunger connection, gland, valve, valve seats and strainer are of solid bronze. They are simple, accessible and easily removed. The pump has a steel air chamber extending from the top of the sprayer to the valve chamber, making it easy to get up sufficient pressure to continue spraying for some time after the pumping has stopped. It is equipped with a large adjustable lever producing 3, 4 or 5 inch strokes by simply removing and replacing a single bolt, thus varying the pump's capacity. The pump may be placed in any length barrel, as the barrel plate is adjustable. It is held firmly in place by this plate and a small anchor at the bottom of the barrel. The agitator is simple but very effective, operated by the same lever that works the sprayer.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE



## SPRAYING OUTFITS—Continued

The "Pomona" is considered a most satisfactory pump owing to its working parts being so situated that they may be easily removed and cleaned without disturbing any other portion of the pump. The pump is regularly made for the end of a barrel, but can be arranged for side of barrel if so ordered without extra charge.



THE "POMONA"

### Outside Packed Plungers—No Leather Packings

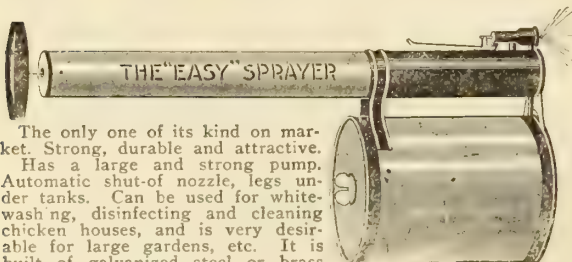
Plunger—Diameter,  $2\frac{1}{2}$  inches; stroke, adjustable, 3, 4 or 5 inches; double discharge,  $\frac{1}{2}$ -inch hose,  $\frac{3}{4}$ -inch pipe.  
 Price of Pump with Agitator and Hose Coupling \$13.00  
 Outfit C. Pump with Agitator and Hose Couplings.—With Agitator and one lead 15 feet,  $\frac{1}{2}$ -inch discharge hose, with "Mistry" or "Mistry Jr." spray nozzles; mounted in barrel.  
 Price ..... \$18.00  
 Outfit D. Pump with Agitator and Hose Couplings.—With Agitator and two leads of 15 feet each,  $\frac{1}{2}$ -inch discharge hose, with "Mistry" or "Mistry Jr." spray nozzles. Mounted in barrel.  
 Price ..... \$22.00

## THE "FRUITALL"

### A Good Sprayer—Easy of Operation

Many inquiries are received for a first-class type of barrel outfit to sell at a lower price than the "Pomona" Sprayers, and to meet this demand with a sprayer having the necessary durability, efficiency and strength we offer our "Fruitall" as a most satisfactory type of med.um-priced equipment.  
 Plunger—Diameter, 2 inches; stroke, 4 inches. Discharge— $\frac{1}{2}$ -inch hose.  
 Price with Agitator and Hose Coupling.....\$9.00  
 Outfit C. Pump with Agitator.—Sprayer with Agitator and one lead 15 feet,  $\frac{1}{2}$ -inch discharge hose, with "Mistry" or "Mistry Jr." spray nozzle; mounted in barrel.  
 Price ..... \$13.50  
 Outfit D. Pump with Agitator.—Sprayer with Agitator and two leads, 15 feet each,  $\frac{1}{2}$ -inch discharge hose, with "Mistry" or "Mistry Jr." spray nozzle; mounted in barrel.  
 Price ..... \$17.50  
 Ask for Special Catalogue.

### The "EASY" Compressed Air Sprayer



The only one of its kind on market. Strong, durable and attractive. Has a large and strong pump. Automatic shut-off nozzle, legs under tanks. Can be used for whitewashing, disinfecting and cleaning chicken houses, and is very desirable for large gardens, etc. It is built of galvanized steel or brass as ordered. Holds one gallon.

## IRON AGE BARREL SPRAYER, No. 197

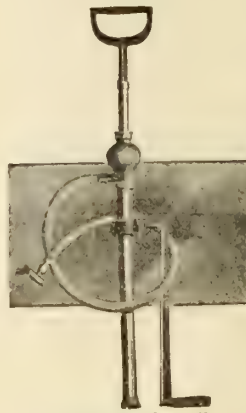
### 20 Gallon Capacity Mounted on Steel Wheel Cart

This is a very complete outfit of limited capacity but fitted for easy transportation and with two distinct features, which you will not want to be without when you have used the rig once.

Pump easily removed. It is securely bolted to a two-piece cast plate, which rests in an opening cut for it in the top of the barrel, and is held there by two eccentric levers. To remove pump, simply move the levers and lift the pump and agitator out in one piece.

There are 33 inches of half inch hose and two lengths of pipe, 2 feet each, with stop cock, improved Vermorel nozzle and one sliding hand grip, an extra cap for washing wagons, windows, etc., and steel handles and barrel leg.

Price ..... \$16.00



The "Bordeaux"

## BRASS BUCKET SPRAYERS

'Bordeaux' Sprinkling, Washing Wagons, Windows and Whitewashing

Brass Garden Spray Pump designed for spraying in gardens and greenhouses. The sprayer is placed in a pail or bucket with foothold on outside. The brass ball valves are proof against the action of acid and o'ls. Foot piece is malleable iron. The pump end of discharge hose is attached with brass coupling, adding largely to its durability. Pump has no suction hose, but is set in pail or bucket with foot rest outside. The "Mistry Jr." nozzle is furnished with 3 feet of  $\frac{3}{8}$ -in. discharge hose.

Price ..... \$3.50

## IRON AGE BUCKET PUMP

For spraying trees, bushes, vines, etc., and whitewashing, washing windows, washing wagons, applying cold water paint, etc. 100 lbs. pressure easily maintained when spraying or painting. We especially recommend this pump. Price, \$6.00.

## NON-CLOG AUTOMATIC NOZZLE

Weight,  $4\frac{1}{2}$  ounces. The Non-Clog Automatic Nozzle can be adjusted to throw every graduation of spray from a fine, wide-angle, bell-shape, 18 inches from the nozzle mouth, covering a surface of over three feet, to a concentrated and heavier spray, throwing a distance of twenty feet. Four discs go with each nozzle. Price: Non-Clog Automatic Nozzle, brass, \$1.25.

Figure 49 $\frac{1}{2}$

Brass Y designed so that two nozzles can be used with one female thread on inlet.

Price ..... 75c.

Figure 49

Brass Y is cut  $\frac{3}{4}$ -inch male pipe thread on inlet (1-inch if so ordered) and  $\frac{1}{2}$ -inch or  $\frac{3}{4}$ -inch male hose thread lateral discharge.

Price ..... 75c.

Figure 1047 $\frac{1}{2}$

Brass Y designed so that two nozzles can be used fifth one lead of hose, is tapped to fit  $\frac{3}{4}$ -inch pipe at butt which also adapts it to fit our Figs. 65 and 67 couplings for hose.

Price ..... 40c.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE



SPRAYING OUTFITS—Continued

Figure 89

Brass hose nipple, one end cut male pipe thread, other end male hose thread.

Price:

1/2-in. or 3/4-in. hose, 1/2-in. iron pipe.....	25c.
3/4-in. or 1-in. hose, 1-in. iron pipe.....	25c.
1/2-in. or 3/4-in. hose, 1-1/4-in. iron pipe.....	40c.
1-in. hose, 1-in. iron pipe.....	40c.
1-in. hose, 1-1/4-in. iron pipe.....	40c.
1-1/4-in. hose, 1-1/4-in. iron pipe.....	40c.

Figure 1047

Brass Y is tapped to fit 1/4-inch pipe at butt, which also adapts it to fit our Fig. 65 coupling for hose or iron pipe.

Price ..... 40c.

Figure 1507

Swivel elbow, threaded both ends for 1/4-inch gas pipe. For use with any nozzle.

Price ..... \$1.00

Figure 65

Coupling, small end cut 1/4-inch pipe thread to fit our spray nozzle, large end cut to fit 1/2-inch or 3/4-inch male half hose coupling.

Price ..... 25c.

THE MYERS O. K. SPRAY PUMP.

For Hot, Cold or Any Kind of Mixture. Has Mechanical Agitator, Solid Brass Ram Plunger, Ground Bevel Valve and Seat.

The special features are the cog gear, the malleable iron base, which is adjustable and is made for end or side of barrel. The plunger is a solid brass tube with closed ends, is outside packed with hemp packing. The packing gland is adjusted by two bolts. The valve and seat are hard brass. The air chamber is 2 1/2 inches. This in connection with the cog gear enables the operator to carry a pressure of 200 or more pounds, if necessary.

Myers O. K. spray pump, complete with agitator and two 15-foot leads of 7-ply, 1/2-inch discharge hose, with two Fembro nozzles, mounted in barrel.

Price ..... \$21.50

MYER'S BUCKET PUMPS

- No. 319. Myers Defiance Spray Pump, with agitator, complete with hose and graduating Vermorel fine, coarse spray and solid stream nozzle. Price ..... (Peat) \$6.00
- No. 319A. Myers Defiance Bucket Spray Pump, with agitator, complete with hose, graduating Vermorel fine, coarse spray and solid stream nozzle, and an eight foot pipe extension. Price ..... (Peaty) 6.50

Myer's Double Acting Cog Gear Complete Spray Pump Outfit.

- No. 319C. Pump complete, 50 gallon barrel, mounted on skids with pressure gauge, two 15-foot leads 7-ply 1/2" discharge hose, 2 Fembro nozzles, 28-foot extensions, with lever shut-off. Price ..... \$32.50

Sherman Brass Hose Clamps

Figure 1272

1/2-inch, per dozen.....	60c.
3/4-inch, per dozen.....	60c.
1-inch, per dozen.....	\$2.00
1 1/4-inch, per dozen.....	\$2.50

All necessary nozzles and extra parts for above pumps can be furnished; also a line of best Rubber Hose in stock.

THE AUTO-SPRAY PUMP

A Self-Operating or Automatic Sprayer

Length of cylinder, 21 inches; weight, loaded, 39 pounds; diameter of cylinder, 7 inches; capacity, about 4 gallons; weight, empty, 7 pounds; extension pipes extra.

Auto-Spray No. 1A.—Brass Reservoir, Stop Cock.

Price ..... \$6.75

Auto-Spray No. 1B.—Brass Reservoir, Auto-Pop and Auto-Pop Nozzle.

Price ..... \$7.25

Auto-Pop Nozzle Extra.

Price ..... \$1.25

TIN CAN SPRAYER

One-half tablespoonful of Paris Green and one filling with water is sufficient to destroy all the bugs on 1,300 hills of potatoes.

PATENTED. Price ..... 50c.

BANNER POWDER GUN OR BELLOWS

Applies any powder poison on any plant in any desired quantity and does it any time of the day. Complete, with spreader for distributing the blast.

MYER'S ALL-STEEL BARREL CART

Well made and durable in all its points. 36-inch wheels, 3-inch tires.

Any barrel Spray Pump can be used with it.

Price, with barrel.....	\$8.50
Price, cart only.....	6.00



RUBBER HOSE

BEST QUALITY. LOWEST PRICES

Winner, 4-ply .....	10c.
Delmar, 5-ply .....	12c.
Delphine, 7-ply .....	15c.
Hose Reel, a good one for.....	\$1.25
Hose Nozzles, sprayer .....	.50
Hose Nozzles, solid stream .....	.25

Fountain Sprayer, heavy brass; easily moved without turning off the water.

Price ..... \$1.00

Hose Couplings and Bands.....	.20
Hose Menders and Bands.....	.15

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

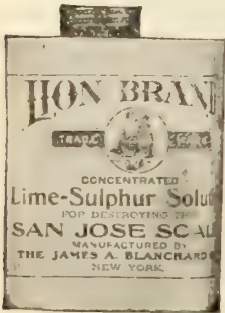


# Insecticides

## LION BRAND LIME-SULPHUR SOLUTION

Known as California Wash

For San Jose Scale and All Other Scale on Trees, Shrubs, Etc.



It is a clear, cherry-colored solution, free from sediment.  
Ask for Special Catalogue.

Lion Brand stands for full, concentrated strength, absolute purity, and undisputed superiority over all other lime-sulphur solutions.  
Price per qt. .... 25c.  
Price per gal. .... 75c.  
Price per 5 gal. cans. .... \$2.50  
Lion Brand is the most perfect, uniform, safe and effective preparation and combination of lime and sulphur that can be made for destroying scale. It is so concentrated that one 50-gallon barrel will make 600 gallons for strongest use, or 1,200 gallons for summer spraying, by adding water only.  
No damage will be done to the tree when dormant if this mixture does go on full strength.

## TARGET BRAND SCALE DESTROYER

For San Jose Scale and All Other Scale on Trees, Shrubs, Etc.

Qt. cans .....	\$0.35
1-gallon cans .....	.85
5-gallon cans .....	3.50

## FLOWERS OF SULPHUR

In barrel of 155 lbs.  
Price, 25 lbs. or less. .... 5c. per lb.  
Special price on larger quantities.

### FLOUR OF SULPHUR

Most excellent for spraying purposes. (See formula below.)  
Price, 25 lbs. or less. .... 5c. per lb.  
Special price on larger quantities.

## LIME-SULPHUR FORMULA

Lime, 20 lbs.; sulphur, 15 lbs.; water to make 50 gals.  
Boil one to two hours with a small quantity of water, then dilute to 50 gallons with boiling water. Do not let mixture become cold; spray while yet warm. For winter or early spring use.



## PARIS GREEN

1/4-lb. package .....	\$0.10
1/2-lb. package .....	.15
1-lb. package .....	.30
2-lb. package .....	.50
5-lb. package .....	1.25

## BUG DEATH

Bug death is a fine powder and in composition is peculiar to itself, inasmuch as it does not depend upon arsenic for its killing power. We give Bug Death our fullest endorsement. Bug Death is safe and sure to use on potatoes, tomatoes, currants, gooseberries, cucumbers, melons and garden truck generally. Full directions on each package.



Pat. March 16 and Nov. 9, 1897.  
Pat. in Canada Nov. 2, 1897,  
and Jan. 25, 1900.

Pat. March 16 and Nov. 9, 1897.  
Pat. in Canada Nov. 2, 1897,  
and Jan. 25, 1900.

Bug Death prevents blight, increases yield, improves quality. It can be used dry or in a spray.  
1-lb. package ..... 15c.  
3-lb. package ..... 35c.  
5-lb. package ..... 50c.

## DICKY DUSTER

The most practical and best selling implement for applying Bug Death and all powders to plants. Price, 25c.



## HAMMOND'S SLUG SHOT

A non-poisonous powder. It requires no further mixing or preparation; easily applied and not injurious or dangerous to animal or person applying it. Destroys potato bugs, slugs, worms, caterpillars, etc.

5-lb. package .....	30c.
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## Bordeaux Mixture

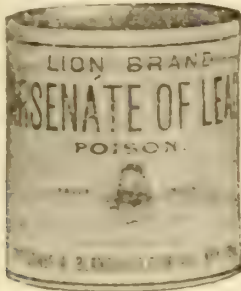
For rots, blights, mildew and other fungous diseases.  
1-qt. can ..... \$0.35  
1/2-gal. can ..... .60  
1-gal. .... 1.00  
Ask for Special Catalogue.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE



### Arsenate of Lead

To control codling moth and all leaf-eating insects. Especially recommended for rose bushes and tender plants. Particularly good for potatoes.



1 lb. ....	\$0.25
2 lb. ....	.40
5 lb. ....	1.00

For use add cold water slowly and stir until a thin paste is obtained before adding to the volume of water. Use one ounce to a gallon of water and apply with a spray pump.

### Sterlingworth Powdered Tobacco

A very effective and cheap remedy for bugs, worms, lice and similar pests on cabbages, squashes, melons, cucumbers, potatoes, plants, etc. It is for application while the vegetation is wet with dew. This product is very fine, sticks well to the leaves and analyzes high in nicotine.

Prices: 1-lb. box, 10c.; 50-lb. paper lined, burlap sacks, \$2.00 each.

### Sterlingworth Whale Oil Soap and Tobacco

Sterlingworth Whale Oil Soap and Tobacco is different from the so-called Whale Oil Soap usually sold for agricultural use. It is different in strength, different in efficiency and more desirable in many ways. It is a compound of Whale Oil and Fish Oil, the efficiency of which is greatly increased by the addition of tobacco extractive matter. It possesses all the valuable features of Whale Oil Soap and the additional insecticide value of tobacco, and can be used for any purpose for which Whale Oil Soap is used, with doubly satisfactory results. It is a most effective, reliable and cheap remedy for destroying San Jose Scale, Oyster Shell Scale, Plant Lice, and all sucking insects on trees, shrubs, plants, vines, rose bushes, etc.

It is put up in tightly sealed, neatly labelled square boxes, which conserves the strength of the soap almost indefinitely. Directions for use on every package. Tell your dealer you want this brand. It costs no more than soap which contain large quantities of water and no tobacco.



Prices: 1-lb. box, 15c.; 5-lb. box, 60c.; 10-lb. box, \$1.00; 50-lb. box, \$4.50; 100-lb. box, \$8.50.

### Sheep Dip

Non-poisonous and soluble in cold water. An effectual remedy for maggots, lice and ticks, and destroys scab and worms in lambs.

½-gal. can .....	60c.
1-gal. can .....	\$1.00

## Chicken Foods

### "RARVA" MEAT MEAL

Very necessary in poultry yards where best results are desired. Contains 85 per cent protein.

100-lb. bags .....	\$3.75
Less quantity, per lb. ....	.04

### "Royal" Meat Meal

A good product, containing 65 per cent protein.

100-lb. bags .....	\$3.00
Less quantity, per lb. ....	.03½

### Crushed Bone

Made from fresh, clean bone, with no chemicals applied during process of manufacture. Should be fed daily. Excellent for producing eggs and keeping fowls strong and healthy.

100-lb. bags .....	\$2.50
Less quantity, per lb. ....	.03

### Alfalfa Meal

A green food the year round. Very high in protein, and furnishes a growing food which has, also, a medicinal value. Increases egg yield.

100-lb. bags .....	\$2.00
Less quantity, per lb. ....	.04

### Queen Mash Feed

A combination of ground grain, alfalfa meal, meat meal and everything necessary for producing a large egg yield. Mix with hot water and it is ready to serve.

100-lb. bags .....	\$2.25
Less quantity, per lb. ....	.03

### Sterlingworth Poultry Charcoal.

The Best Selected and Cleanest Charcoal Sold for Poultry. Sterlingworth Poultry Charcoal acts as an absorbent and destroyer of gases produced in the digestive tract when the system is out of order and also of impurities in the blood. It aids digestion, promotes health, and is generally corrective of many poultry ills. No poultryman can afford to be without it.

Sterlingworth Charcoal is carefully selected with the purpose in view for which it is to be used, and milled into just the right sizes for poultry, pigeons, ducks, geese, etc.

XX (Fine Granulated) for Chicks and Chick Food Mixtures. XXX (Medium Granulated) for Half-Grown Fowls, Pigeons, etc.

XXXX (Coarse Granulated) for grown fowls, geese, turkeys, etc.



Prices: 50-lb., paper-lined, burlap sacks, \$1.00 each; 2-lb cartons, 10 cents each.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE



**CHICKEN FOODS—Continued****Oyster Shells**

A very important adjunct to the poultry yard and should be supplied liberally at all seasons of the year. Will help increase the egg yield.

Regular—100-lb. bag .....	65c.
Fine—100-lb. bag .....	65c.

**Mica Crystal Grit**

Chickens should be liberally supplied with this grit, as few farms furnish sufficient gravel for poultry to properly digest food. Three sizes: Nos. 1, 2 and 3.

100-lb. bags .....	75c.
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**Ravena Chick Food**

In compounding Ravena Chick Food, the protein or flesh-and-muscle-forming element is maintained high, the heat-producing

and the fat-forming elements are reduced to their proper proportion, and the ash or mineral elements are in sufficient amount to supply the needs of the rapidly growing bird. Our Chick Food contains no weed seeds.

**Ravena Scratch Food**

In compounding the Ravena Scratching Food, it is our aim to produce a properly balanced ration that will aid the mash food in producing healthy birds and a large supply of properly-sized, well-fertilized eggs.

Prices upon application.

**Pratt's Food**

To well known to need any description.

Poultry Food .....	
12-lb. bag .....	\$1.25
5-lb. pkg. ....	.60
26-oz. pkg. ....	.25
Small package .....	.10

**Poultry Remedies**

Conkey's Medicines and Remedies never disappoint. Use them and your poultry will keep healthy and give you big returns.

**Roup Cure**

Roup Cure kills the disease germs and gives tone to the birds. It is given in the drinking water without trouble. 25c. and 50c. sizes.

**Cholera Cure**

Use it and save your chickens. Given in the drinking water. Good also for indigestion, dysentery and kindred diseases. 25c. and 50c. sizes.

**Head Lice Ointment**

Price per box .....	10c.
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**Gape Cure**

Kill the worm which sucks the life from the throats of little chicks. Conkey's will cure them. 25c., 50c. and \$1.00 sizes.

**Sterlingworth Diarrhoea Remedy**

This remedy is guaranteed to give satisfaction. If it fails we will refund the purchase price.

Particularly White Diarrhoea has driven more poultrymen out of the business than any other disease. Millions of chickens die yearly from this trouble which could be saved if Sterlingworth Diarrhoea Remedy was used. Poultrymen should not wait until their chickens become diseased, but should use it as a preventive. Remember that cholera is an entirely different disease from diarrhoea and must be treated differently. It is not a cure-all, but a reliable remedy only for diarrhoea, dysentery and other kindred fowl troubles in chickens. It is a powder for use in the drinking water.

Per box .....	50c.
---------------	------

**W. & C. Lice Powder**

It's no disgrace if your fowls get lousy, but it is a shame to let them stay lousy when W. & C. Lice Powder will cure them. Gets them all. Will not harm the smallest chick.

In packages—1c, 25 and 50c. sizes.

Ask for prices in bulk.

**W. & C. Lice Paint**

A sure remedy. Don't let your fowls suffer. Clean out your coops with Lice Paint.

Prices: Quart, 35c.; ½ gallon, 60c.; gallon, \$1.00.

**DISINFECTANTS****"OCULUM"**

Scientific Remedy and Preventive For Cholera, Roup, White Diarrhoea and Sore Head; Also Cure For Gapes

Inoculation for fowls is a new discovery. Oculum is a sure cure for Cholera, Roup, White Diarrhoea, and Sore Head in fowls. It is also a preventative of these diseases. Inoculate your fowls with Oculum and they will be healthy. The deadly germ of Cholera and White Diarrhoea is in the egg. The chick when hatched is a candidate for early death.

Two Sizes, \$1.00 and 50c

**"ANTIKOL"**

The New Scientific Cure and Preventive of Hog Cholera

Antikol is especially designed to prevent and cure hog cholera. It cannot be of benefit except in cases where a disease is due to germs introduced into the intestinal tract. It is fatal to the hog cholera germ and yet absolutely harmless to the hog when used in accordance with directions. It absolutely destroys the cause of cholera in a few hours and consequently, when properly used, is a perfect preventive. If the disease has already gained access to the herd, "ANTIKOL" will kill the germs. "ANTIKOL," \$1.00 and \$6.00 packages. "ANTIKOL" postpaid, in \$1.00 size, \$1.18. The \$6.00 size contains 7½ times more than the \$100 size.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

## Poultry Appliances

### WE ARE AUTHORIZED AGENTS FOR Genuine Standard Cyphers Incubators

(Look for Trade Mark—Demand the Label)

Practical poultry raisers who mean business and desire the greatest possible success should look for and demand the qualities that have made Cyphers Incubators world famous.

Fire-proofed, insurable, self-ventilating, self-regulating, non-moisture, efficient, durable and positively guaranteed.

For 1913 we offer our customers the Cyphers Company's complete line of incubators and brooders—the best on the market. For years the Cyphers Incubator has been consistently improved, always maintaining its leadership, until today it represents all that is most efficient, convenient and reliable in incubator construction.



**STANDARD  
CYPHERS INCUBATOR**  
Fire Proofed—Insurable.

To own a Cyphers is to have an incubator that stands first, not only because it has affixed to it the fire insurance label granted by the National Board of Fire Underwriters and bears a world-wide reputation, but because of the well-established fact that it is the best hatcher of large, vigorous, livable chicks. It is positively guaranteed to out hatch any other make of incubator under widely-varying conditions, season after season, and to last ten years without repairs.



**Demand This Label—Your Safety**

Form of Brass Label to be found (in serial numbers) on Every Standard Cyphers Incubator. All sizes.

Every Standard Cyphers Incubator is guaranteed by the manufacturers to do first-class work in the hands of every purchaser who will give it a fair trial, and we hereby place our guarantee back of theirs. In buying a Cyphers you take no chances. Persons who earnestly desire to succeed in the poultry business should have the right tools with which to work.

Sizes and prices of Cyphers Fire-Proofed Incubators free on board cars at Washington, D. C.

No. 0 holds 70 hen eggs.....	\$15.00
No. 1 holds 144 hen eggs.....	22.00
No. 2 holds 244 hen eggs.....	32.00
No. 3 holds 390 hen eggs.....	38.00

Notice.—The above prices are factory prices. In buying of us you save on freight and also save valuable time. Goods are carried in stock by us the year around. Remember that time is money.

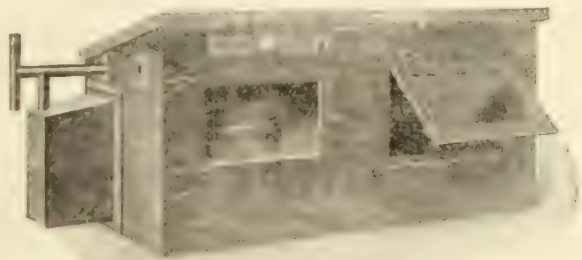
PRICES SUBJECT TO CHANGE WITHOUT NOTICE

### Standard Cyphers Combination Brooders and Colony Roosting Coops for 1913

Cyphers Unequalled Apartment Brooders and combination roosting coops have the same important advantages over all other makes that are possessed by Cyphers Company's 1913 incubators, in that they are fire-proofed and insurable, having the first fire-insurance inspection label ever granted on a brooder.

Cyphers 1913 Brooders, every size and style, are self-regulating, self-ventilating and vermin proof. The outdoor styles are usable also as colony coops for the growing chicks. They are easily and quickly converted into colony roosting coops by simply taking out the hover, which is made removable for that purpose.

**Fire-proofed, Insurable, Self-regulating**

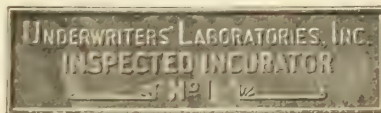


**Style B Outdoor Brooder**

(Three apartments—Safest and most popular "Foster Mother" ever designed.)

This double use of the Cyphers Brooder means a considerable saving of money. It makes a safe and comfortable enclosure for the young chicks at night and saves the buying of a coop for them. These outdoor brooders, on account of their fire-proof construction, can be used indoors, although we supply a special brooder.

Style D, for indoor purposes. All Cyphers 1913 Brooders, both outdoor and indoor, contain either two or three apartments. The popular Style B (shown in illustration herewith) contains three apartments: First, roomy space under the hover; second; hover chamber; third, well-lighted exercising apartment.



**Demand This Label—Your Safety**

Form of brass label to be found (in serial number) on every Cyphers Brooder. All sizes.

### Cypher's Adaptable Hovers

In addition to this unequalled line of brooders, we offer separately the Cyphers Company's world's challenge Adaptable Hover. This machinery-made, all-metal, guaranteed fire-proof heating and brooding device is suitable to be used anywhere that heat is required for brooding chicks or ducklings. It can be used



**All-Metal Adaptable Hover**

in a roosting coop, colony house, shell, hen house, barn or other building with or without any additional enclosure for the chicks, or in a large goods case or organ or piano box, and is pro-



## POULTRY APPLIANCES—Continued

nounced by thousands of users to be the best device thus far invented for heating home-made brooders. Recommended especially for use in long brooding houses, one hover for each pen. Adaptable, hover is complete in itself, bears insurance label as a separate device, and is safe to use anywhere. Weight, boxed for shipment, only 40 pounds.

Complete Catalogue for 1912 contains fully illustrated description of this self-regulating, fire-proofed hover, also of the entire line of Cyphers apartment brooders.

Sizes and prices of Cyphers Adaptable Hover and Combination Brooders:

Adaptable Hover, cap. 75 chicks.....\$ 8.50  
Style A, 2-Apartment Outdoor Brooder, cap. 75 chicks.. 12.50  
Style B, 3-Apartment Outdoor Brooder, cap. 100 chicks.. 16.50  
Style C, 3-Apartment Outdoor Brooder, cap. 100 chicks.. 18.50  
Style D, 3-Apartment Indoor Brooder, cap. 75 chicks.... 11.50

Notice. The above prices are factory prices. In buying of us you save on freight and also save valuable time. Goods are carried in stock by us the year around. Brooders shipped knocked down at low freight rates.

## THE PARADISE BROODER

FOR INDOOR USE. SOLD IN ONE, TWO, THREE OR FOUR SECTIONS

On the basis of our many years' experience in the sale of all styles of brooding apparatus we believe the Paradise One-Lamp Sectional Brooder to be the best indoor brooding device invented thus far as a practical, convenient and economical nursery for newly-hatched chicks and ducklings. It embodies the correct principles of brooding chicks and ducklings by artificial means.

The Paradise Brooder can be operated in a dwelling house, stable, poultry building or other structure where the temperature does not go to freezing. Will give excellent satisfaction in any of these locations. Size of each brooder (floor space) is 3x7 feet, and an eighteen or twenty-four inch aisle is needed at ends and sides for operator. Price of Paradise Brooders: Base Section, complete (including Heater, Fresh-Air-Box, Cover, Legs, Ventilating Cap and Water Can, which are sent with Base Section only, crated ready for shipment, with complete directions for use, \$20.00. Additional Sections, each \$15.00.

## Cyphers Galvanized Iron Drinking Fountains

The water supply is often the medium that conveys contagious disease from one fowl to another. In the drinking vessel it comes in contact with and is infected by the discharges from the nostrils of ropy fowls and those having canker, chicken pox and other head and throat diseases. It is essential, therefore, that the drinking fountain should be easy to clean. Cyphers Fountains are made of heavy galvanized iron, all seams being carefully turned and soldered. They are so formed that in freezing weather the pressure of ice inside will not split the seams.



	Each	Six
Small size, 1 qt. (for chicks).....	\$0.18	\$0.90
Med. size, 2 qts. (for growing chicks or ducklings) .25		1.25
Large size, 3 1/2 qts. (for fowls).....	.35	2.00
Special duck size, 2 gals.....	.50	2.50

Special prices on larger quantities.

## Hallock Feed and Water Holders

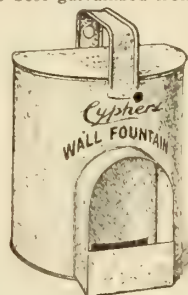
The Cyphers Company owns the patent under which these food and water holders are manufactured. Undoubtedly this is the best device of the kind on the market. The tops and bottoms of these holders are separable. The holder may be carried about with perfect safety, for the greater the weight the tighter the grip of the wires. These wires prevent the chicks or fowls from getting into the pans and soiling the food or water.



Prices: Small (1 gal. for chicks), 75c.; Medium (2 gal. for fowls), \$1.00; Large (3 gal. for ducks), \$1.25.

## Cyphers Wall Fountain

These fountains are something new and extra serviceable in the way of poultry fountains. The back is flattened so that it can be hung on the wall of a building, or against an upright post or board at any height. A galvanized iron hood projects over the water trough and protects the water from becoming soiled. These fountains are equally serviceable for young chickens, or adult fowls, and are especially useful for pigeons. They are made of the best galvanized iron.



One-gallon size, each, 50c.; per six, \$2.70; two-gallon size, each, 75c.; per six, \$4.20.

## Cyphers Grit and Shell Box

Cyphers Sanitary Self-Feeding Grit and Shell Boxes work a material saving in grit, oyster shell, ground bone, charcoal or poultry foods. They are thoroughly practical, self-feeding boxes, well made out of heavy galvanized iron.

Cyphers Grit and Shell Box, each, 50c.; per dozen, \$4.75.

## Cyphers Dry-Food Hopper

Cyphers Self-Feeding Dry-Food Hopper is a practical labor and food saving device for feeding dry grain food, either whole or ground. These Hoppers are well made of heavy galvanized iron.

The Cyphers Dry-Food Hopper has two compartments, a large one for grain mixtures, holding about six quarts, and a small one for beef scrap, holding about three quarts.

Cyphers Dry-Food Hopper, each, 75c.; per dozen, \$8.00.

## Norwich Automatic Feeder



Norwich Automatic Feeder.—Saves grain, increases egg yield. Rat and damp proof. No. 1, 8-qt. Hopper, 12 lbs., \$2.50.

## Cyphers High-Grade Tester Thermometers

Hundreds of hatches in incubators fail because of inferior thermometers, and large numbers of chickens are killed in brooders for the same reason. The thermometers here listed are manufactured especially for us, and are thoroughly tested before they are shipped. Two-thirds of the thermometers on the market are made from improperly seasoned glass tubes. Our thermometer tubes are carried in stock two years before being mounted on the scale.

Incubator Thermometers ..... 50c.  
Brooder Thermometers ..... 40c.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

**Cyphers Safety Brooder Stove**

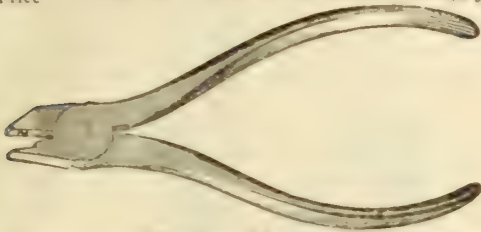
Price ..... \$1.75

**Cyphers X-Ray Egg Tester**

Price ..... 35c.

**Pilling's Caponizing Set**

Price ..... \$2.50



**Perfect Marker**

Price ..... 50c

**PILLING'S**

Price ..... 25c.

**Cyphers Lice-proof Perch Support**

Per pair ..... 30c.

**Ovinapithol Nest Eggs**

Lice destroyer and nest egg combined. Simply put it in the nest.

Each ..... 5c.; 50c. doz.

**China Nest Egg**

Dozen ..... 20c.

**Lime Nest Eggs**

Dozen ..... 20c.

**Gape Extractor**

Each ..... 25c.



**Champion Leg Bands**

One doz., 15c.; 25 for 25c.; 100 for 75c.

**Mann's Green Bone and Vegetable Cutter**

The feed is both automatic and self-governing. Cuts all gristle and meat. Nothing escapes uncut.

No. 5C.—The machine is exactly the same as the No. 5B, with a crank handle instead of a balance wheel. Capacity not quite equal to 5B. Weight, 35 lbs.

Price ..... \$6.00



1902 Model

No. 5B.—This machine is exactly the same as the No. 5 BM, except that it has not the iron stand. The capacity is the same. Weight, 60 lbs.

Price ..... \$8.00

No. 5BM.—Intended for flocks of 15 to 25 hens. Mounted on iron stand. Cylinder 6 inches in diameter; 4 inches deep.

Price ..... \$10.40

No. 7.—Intended for flocks of 40 to 100 hens. Mounted on strong iron stand with large table for box or pan to receive cut bone. Weight 107 lbs. Cylinder, 7 1/4 inches in diameter; 5 1/4 inches deep. Capacity, 1/2 to 1 lb. per minute.

Price ..... \$12.00

No. 7 1/2.—Semi-power machine.

Price ..... \$16.00

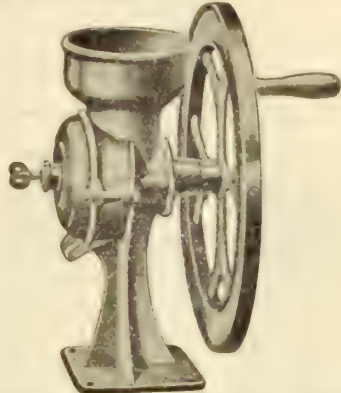
**Mann's Clover Cutter for Poultry**

This machine is designed upon strictly correct mechanical principles, for the particular purpose of making the knife easy to sharpen and simple to adjust, and that will not get out of order—something never before accomplished. It cuts any kind of hay or clover, either dry or green, and more rapidly than any other. Every revolution of the balance wheel produces 12 cuts, which is four times as fast as the ordinary clover cutter.

It is strongly built. The workmanship is first class in every particular, and it will last for years without repairs. Made either with or without the stand.

Price, with stand ..... \$10.00

Price, without stand ..... 8.00



**Feed Grinders or Grist Mills**

Freeman's Grist Mills for grinding corn meal or cracking corn. Will grind fine for table use or can be used for cracking corn for poultry. None better.

Price, No. 2 Mill ..... \$4.50

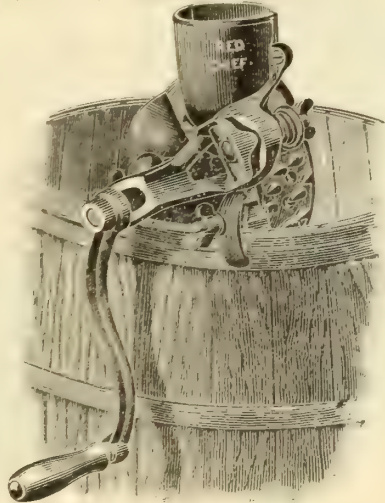
Price, No. 3 Mill ..... 5.50

**Red Chief Grinding and Feed Mills**



It combines all the elements of rapid work, perfect grinding, and requires little power.

A necessity in every household. Weight, 15 lbs. Price, \$3.00.



**Red Chief Corn Sheller**

A most excellent sheller for use in connection with poultry yard.

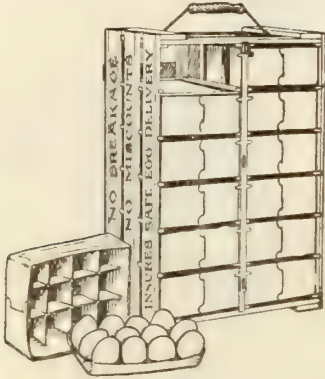
Price ..... \$1.50



## POULTRY APPLIANCES—Continued

## Star Egg Carrier

Farmers Modern Egg Crates have been most enthusiastically received whenever shown. For years egg dealers have been in quest of a strong, yet light, crate that would stand rough handling and at the same time assure absolute protection for the eggs.



White wood, noted for its lightness, strength and appearance, is used exclusively in the frame work. All nails used are cement coated. The handle balances the crate perfectly, and can be closed down when not in use, thus allowing stacking.

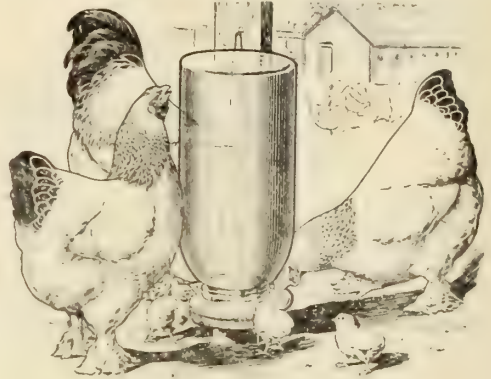
The trays are constructed of the toughest kind of jute board with compartment divisions—thus assuring perfect safety for eggs.

No. 4, 4-doz. capacity	.....\$0.75
No. 8, 8-doz. capacity	.....1.00
No. 12, 12-doz. capacity	.....1.25

We carry in stock a full line of Burners, Wicks and other parts for Cyphers Incubators and Brooders.

## Klean Drink Chick Fountains

You need the Klean Drink Automatic Fountain for your chicks. Don't let them drink disease-breeding, dirty water. Clean water will save you a lot of money. And the Klean Drink is the way to "serve" it.



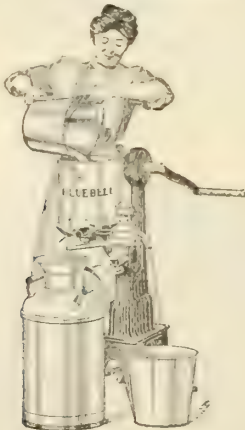
Price of No. 2 for quart jars without jar, 15c.; 2 for 25c.  
Price of No. 3 for 1/4-gal. jars without jar, 25c. each.

## Dairy Supplies

## BLUEBELL CREAM HARVESTER

## A New Separator

When a new machine is put upon the market by responsible manufacturers, a purchaser can be reasonably safe in drawing the conclusion that the machine is one of the best, if not the best. The reason for this is that in all probability the machine embodies the good points of all similar machines on the market.



For instance, the Bluebell cream harvester possesses not only the good points of other separators, but many features which are distinctly individual. This machine was built after a careful investigation of separator construction. The strong points and the weak points of other separators were carefully considered, and the mistakes which other manufacturers have made were guarded against. As a consequence, the Bluebell is unquestionably one of the best machines of this type on the market. It skims close, is easy to clean and operate, and is simple and durable. Every point in its construction has been carefully considered, and every device which would tend to improve it has been adopted. It was built primarily to meet the demand for a good cream separator. Its success cannot be questioned.

Made in the following sizes:

No. 1, 300 lbs. capacity per hour	.....\$60.00
No. 2, 400 lbs. capacity per hour	.....65.00
No. 3, 550 lbs. capacity per hour	.....80.00
No. 4, 750 lbs. capacity per hour	.....90.00

## United States Cream Separators

A Cream Separator is run at a higher rate of speed than any other farm implement and is used twice every day in the year. To withstand this severe strain it must be of few parts built of the best material, by the best mechanics, with the greatest accuracy and on the right mechanical lines to insure thorough skimming, long service, easy cleaning, ease of operation and simplicity.

These five essential points are the features that easily distinguish the United States Separators from all others.

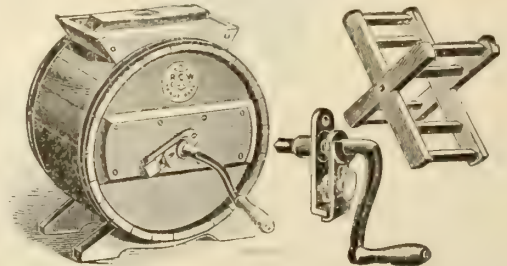
Price of the United States Separators:

No. 9, 175 lbs. capacity per hour	.....\$45.00
No. 8, 300 lbs. capacity per hour	.....60.00
No. 7, 400 lbs. capacity per hour	.....70.00
No. 6, 500 lbs. capacity per hour	.....75.00
No. 5, 675 lbs. capacity per hour	.....90.00

## CHURNS

## Richmond Cylinder Churns

Made of white Cedar, free from knots. A most excellent churn for farm use. Guaranteed to give satisfaction.



No. 1, will churn 3 gallons	.....\$2.50
No. 2, will churn 4 gallons	.....3.00
No. 3, will churn 7 gallons	.....3.50
No. 4, will churn 10 gallons	.....4.00

PRICES SUBJECT TO CHANGE WITHOUT NOTICE



## DAIRY SUPPLIES

### Continued

We sell the famous "Loudoun Line" of Dairy Supplies. Special Catalogue and Prices on application.

Milk Pails 50 and 60 cents.

## SHAW CALF WEANERS

The Shaw Calf Weaner is thoroughly practical. The action is entirely in

the basket, it being hinged to the end of the nose piece. The basket is made of heavy galvanized wire, with a solid leather lining through

Prices: No. 1, 2, 35c.; No. 3, 50c.

## Rice's Calf Weaners

Also prevents cows from sucking themselves.

No. 1 (for calves).... 25c.  
No. 2 (for heifers).... 40c.  
No. 3 (for cows).... 60c.

## Floating

## Glass Thermometers

8-inch ..... 25c  
10-inch ..... 50c

## Brick Butter Prints

Seeley Pattern, furnished with sheaf of wheat or other attractive designs.

1/2 pound ..... 50c.  
1 pound ..... 60c.

## Round Style Butter Prints

1/2 pound ..... 25c.  
1 pound ..... 40c.

## Butter Paddles and Spades

Made of hard maple.

Price, each ..... 10c.

## STEEL STANCHIONS

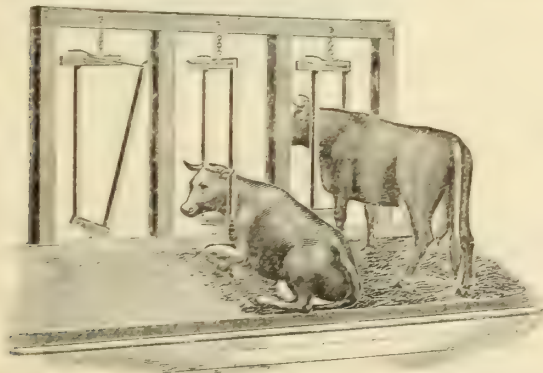
### The Quick

## CATTLE COMFORT, DROP LOCK, STEEL SWING STANCHIONS

Perfect Fastening; Do Not Pinch Fingers. Open and Close Easily by One Hand Only

Absolute Freedom; Cattle Cannot Get Loose.

Made entirely of spring steel, no malleable or cast iron entering into their construction and no matter how much the cows may twist and strain them, always retain their shape. Contain no rough places, splinters or checks to injure the cows and where dirt may lodge. Do not absorb moisture and odors like wooden stanchions, are sanitary and highly endorsed by Health Departments.



Guaranteed against breakage. We will replace free any broken ones.

The Standard Size has 6 1/4-inch neck space; the Bull Stanchion 8-inch neck space.

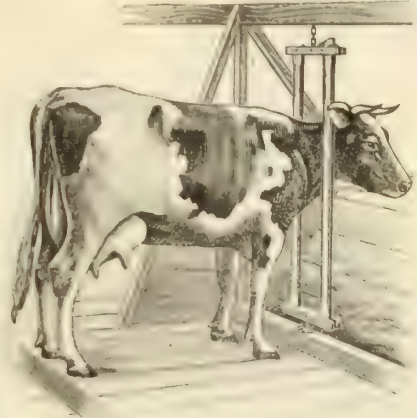
Price, each ..... \$1.50  
Special price in quantities.

## WOODEN STANCHION

## ROBERTSON'S CHAIN HANGING STANCHIONS AND SUCCESSFUL DAIRYING GO HAND IN HAND

Simplicity in construction, and being made of the best material and in the most substantial manner, they are perfectly safe and durable.

The animal cannot get caught by the head or horns, as when fastened with chains or ropes, and can be fastened or released in one-half the time.



Price ..... \$1.25  
Ask for price in quantity.

## SO-BOS-SO

So-Bos-So (Kilfly) is a liquid mixture designed to protect cows and horses from torture of flies.

The preparation is positively harmless. It is used with splendid results as a disinfectant and germicide. If your animals are troubled with lice, use So-Bos-So (Kilfly). Spray your poultry with So-Bos-So (Kilfly). It kills lice or any vermin that may infect the fowls. Put up in 1-gallon cans.



ELECTRIC SPRAYER.  
PATENTED JAN. 25, 1899.

Price, per gallon ..... \$1.00

The Electric Sprayer shown in above cut may be used for spraying other disinfectants and insecticides as well as So-Bos-So.

Price ..... 50c.



Household Goods

MAJESTIC WASHING MACHINE

It is a fact unquestionable that white cedar is the only wood known that successfully resists the action of water, as witness white cedar shingles and posts oftentimes last for a hundred years. Ninety per cent of the washtubs used are made of cedar because they are preferred. That being the case, why should not cedar washing machines also?



This is the lightest-running and easiest-working washing machine made. Roller bearings; no friction. Works in both directions. Very simple; nothing to get out of order. The tubs are made of selected Virginia White Cedar, and are nicely corrugated on sides and bottom. The hoops are made of galvanized wire, and are welded by electricity. These are much stronger than the old style flat hoops, and cannot drop off, being sunk in grooves.

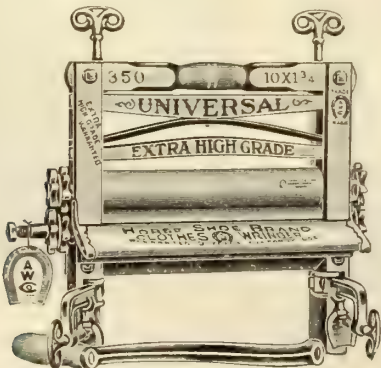
Price ..... \$7.50

WRINGERS

Challenge Clothes Wringers

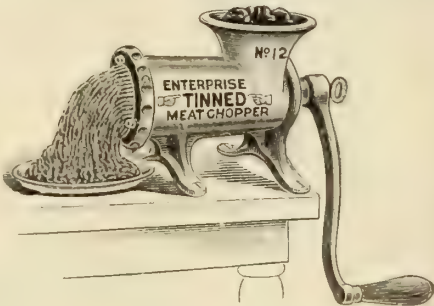
There is no better wringer on the market. You make no mistake in buying it. Warranted for three years.

Price ..... \$2.50



Rival, no better made, sells for \$3.50.

Enterprise Meat and Food Choppers



Cuts all kinds of meat and vegetables into clean-cut, uniform sizes.

- We handle the following sizes:
- No. 10, cap. 3 lbs. per min. (with clamp).....\$2.50
  - No. 12, cap. 3 lbs. per min. (with legs)..... 2.25
  - No. 22, cap. 4 lbs. per min. (with legs)..... 4.00
  - No. 32, cap. 5 lbs. per min. (with legs)..... 5.00
  - Family size, with 4 knives.....1.00

Sausage Stuffing Attachment for Enterprise Meat Choppers

All sizes, 50c. to 60c. each.

Enterprise Sausage Stuffers. Lard and Fruit Presses

Too well known to need comment.

- 4-qt. size .....\$5.50
- 6-qt. size ..... 6.50
- 8-qt. size ..... 7.00

Wagner Fruit and Lard Press

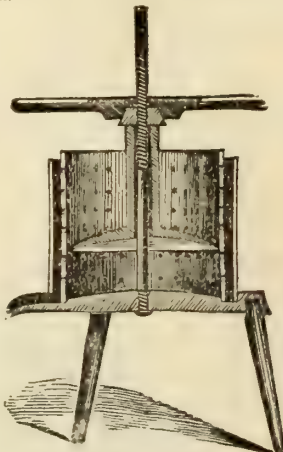
No. 1—Diameter of inside cylinder, 10 inches; capacity, 2¾ gallons.

No. 1 ..... \$4.00

No. 2—Diameter of inside cylinder, 12 inches; capacity 5¾ gallons.

No. 2 ..... \$7.50

The best and cheapest Press for lard and fruit on the market. The price of this Press is so low that every farmer should have one of them.



This press is so constructed that a boy from 10 to 12 years old can easily operate it. It is strong and durable and not liable to get out of order.

All parts are steel and gray iron castings except the cylinders, which are made of heavy galvanized iron, and the legs are wood.

Perry's Sausage Stuffer

A very excellent article for farm use.

Price ..... \$1.00

## HOUSEHOLD GOODS—Continued

## Sliding Kraut Cutter

Sliding Kraut Cutter with 2, 3 or 4 Knives

These Kraut Cutters are constructed on the same principle, but are a decided improvement on the old style machine. Each knife is independent of the other and can be quickly adjusted to cut fine or coarse at will.

Ajax, 2-knife, 6 $\frac{1}{4}$ x17 in.....	25c.
Ajax, 2-knife, 6 $\frac{1}{4}$ x18 in.....	35c.
Ajax, 2-knife, 7x21 in.....	60c.

## Parers and Seeders

## WHITE MOUNTAIN APPLE PARER, CORER AND SLICER

A very good one. Price ..... 65c.

## Rotary Knife Peach Parer

A very useful article.

Price ..... \$1.25

## Cherry Seeder

Price ..... 50c.

## Enterprise Cherry Seeder

Price ..... 75c.

## Farm Bells

These bells are covered with a rich gold bronze and the hangings with a good weather-resisting varnish.

No. 1, diameter, 15 in.....	\$2.00
No. 2, diameter, 17 in.....	2.50
No. 3, diameter, 19 in.....	3.75
No. 4, diameter, 21 in.....	5.00

Lawn Machinery

## Lawn Mowers

Coldwell's Complete Line of Lawn Mowers. None Better.

Imperial, 14-in., 4 blades.....	\$ 8.00
High wheel, 16-in., 4 blades.....	9.00
High wheel, 18-in., 4 blades.....	10.00

Park and Grand same price as Imperial.

Colonial, ball bearing:

12-inch .....	\$4.50
14-inch .....	5.00
16-inch .....	5.25
18-inch .....	5.50

Cadet, the best cheap Mower ever put on the market:

12-inch .....	\$2.50
14-inch .....	3.00
16-inch .....	3.25
18-inch .....	3.50

Caldwell's Improved Horse Lawn Mower is acknowledged by the trade in general to be the best Horse Lawn Mower made. In material, workmanship and finish it is unsurpassed. Made in 4 and 6 blade models

30-in., 4-knife .....	\$ 65.00
35-in., 4-knife .....	75.00
40-in., 4-knife .....	100.00

Ask for special catalogue.

## GRASS CATCHERS FOR THE ABOVE MOWERS

No. 1, for 10, 12 and 14 in.....	\$0.75
No. 2, for 16, 18 and 20 in.....	1.00

## HORSE BOOTS FOR USE ON LAWNS AND GOLF LINKS

Set of 4 ..... \$6.00



## Gold-Metal Hand Lawn Rollers

## CAST IRON

These rollers are especially desirable: they will not dent; wet grass and dirt do not cling to them, owing to their highly polished surface and rounded ends. Have counterbalance, which holds up the handle and makes it easy to push. Handle is adjustable.

No. LR401—Diameter, 15 inches; length, 16 inches; sections, 2; face, 8 inches; weight, 150 pounds.

Price ..... \$7.50

No. LR402—Diameter, 15 inches; length 24 inches; sections, 3; face, 8 inches; weight, 200 pounds.

Price ..... \$9.50



No. LR404—Diameter, 20 inches; length, 20 inches; sections, 2; face, 10 inches; weight, 250 pounds.

Price ..... \$11.50

No. LR407—Diameter, 20 inches; length, 24 inches; sections, 2; face, 12 inches; weight, 300 pounds.

Price ..... \$13.50

No. LR408—Diameter, 20 inches; length, 30 inches; sections, 3; face, 10 inches; weight, 350 pounds.

Price ..... 15.00

No. LR409—Diameter, 24 inches; length, 20 inches; sections, 2; face, 10 inches; weight, 400 pounds.

Price ..... \$17.50

PRICES SUBJECT TO CHANGE WITHOUT NOTICE



## LAWN MACHINERY—Continued

## The Water Ballast Lawn and Garden Roller

Only a moment's time required to obtain any weight from 100 pounds to 500 pounds. Simply fill with water.

Diameter of drum, 24 inches; length, 24 inches; weight, 100 pounds.



Price ..... \$12.00

## Garden Tools

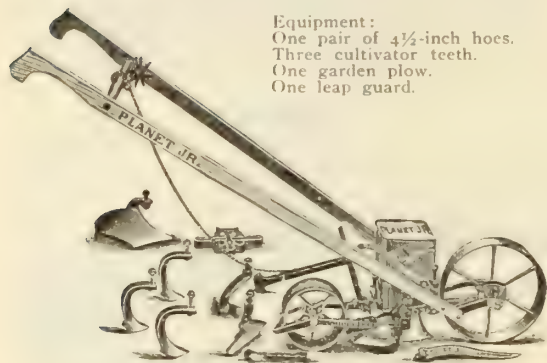
## No. 4 Planet Jr. Combined Hill and Drill Seeder Wheel Hoe, Cultivator and Plow

Steel Driving Wheel. Weight, packed, 47 lbs.

Holds  $2\frac{1}{2}$  quarts.

Equipment:

One pair of  $4\frac{1}{2}$ -inch hoes.  
Three cultivator teeth.  
One garden plow.  
One leap guard.



Price, Complete, \$10.50

As a Seeder Only, \$8.50.

The tool combines, in a single convenient implement, a capital hill-dropping seeder, a continuous row seeder, an admirable single wheel hoe, an excellent furrower, a capital wheel cultivator, and a rapid and efficient wheel garden plow. In a word, with a great variety of tools, excellent in design and quality, it is without an equal for easy adjustment, lightness, strength, and beauty. It is a practical, every day, time, labor, and money saver. It sows in continuous rows with great uniformity, and drops with accuracy in hills, 4, 6, 8, 12 or 24 inches apart. **THE FEED IS AUTOMATICALLY** stopped by raising the handles, and started by lowering them.

## Fire-Fly Garden Plow

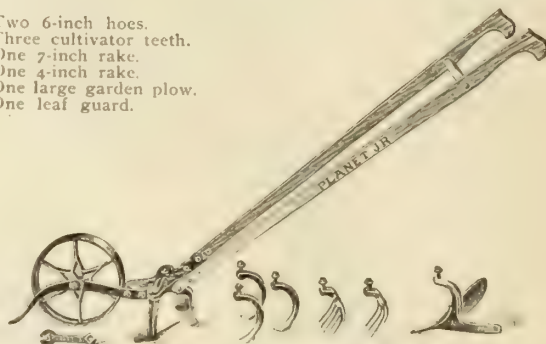
Price, \$2.25.

Packed weight, 13 lbs.

This tool is exceedingly useful to owners of small gardens. It will throw a furrow four to six inches wide and one to three inches deep, and deeper by going twice. Furrows for manure or seeds can be opened and covered. In cultivating, plow away, weed and plow back again. This tool will enable a busy man to do in his spare minutes nearly all the work of a family garden. Chicken raisers find it of great advantage in plowing up their scratching yards.

## No. 16 Planet Jr. Single Wheel Hoe Cultivator Rake and Plow

Two 6-inch hoes.  
Three cultivator teeth.  
One 7-inch rake.  
One 4-inch rake.  
One large garden plow.  
One leaf guard.



SINGLE WHEEL HOES

Price, as in cut, \$5.35.

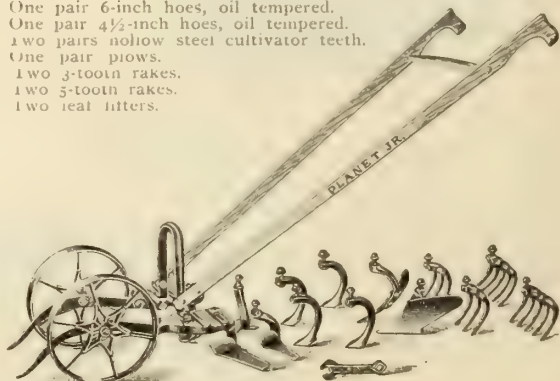
Packed weight, 29 lbs.

## No. 11 Planet Jr. Double Wheel Hoe

Price, with Attachments as in cut, \$8.50.

Packed weight, 37 lbs.

One pair 6-inch hoes, oil tempered.  
One pair  $4\frac{1}{2}$ -inch hoes, oil tempered.  
Two pairs hollow steel cultivator teeth.  
One pair plows.  
Two 3-tooth rakes.  
Two 5-tooth rakes.  
Two leaf litters.



PRICES SUBJECT TO CHANGE WITHOUT NOTICE

GARDEN TOOLS—Continued

IRON AGE FARM AND GARDEN TOOLS

Fig. 75 shows our No. 1 Double and Single Wheel Hoe complete.

Price, \$7.00.

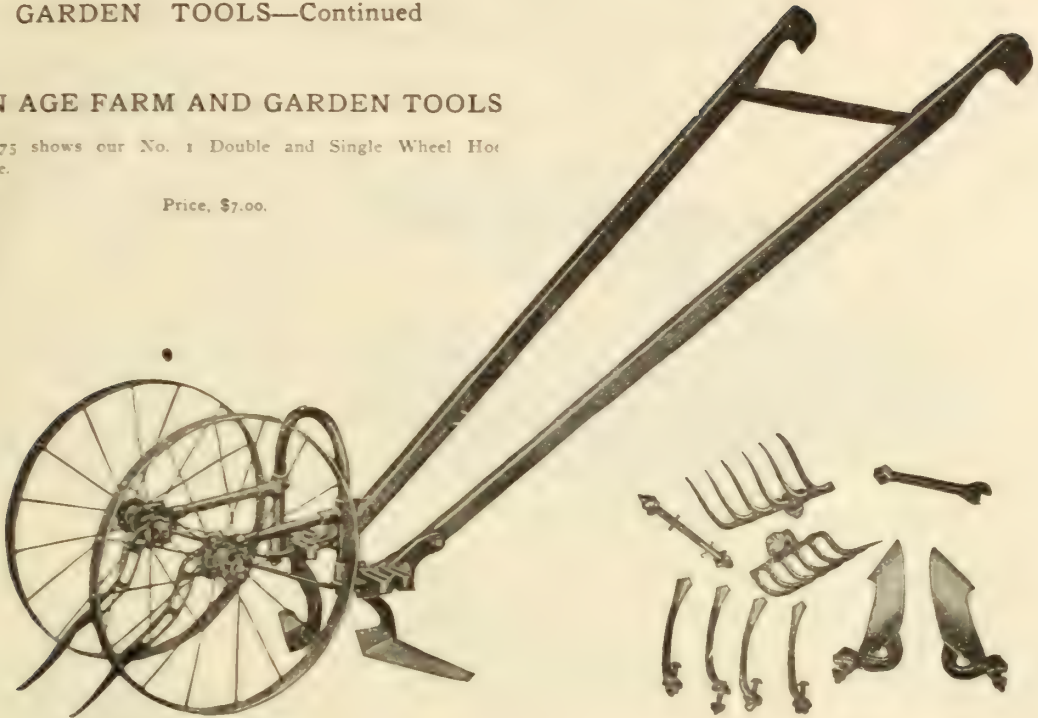


Fig. 75.



Fig. 77.

This is one of the best light all-round tools in existence; has extra high wheel, making it light running.

Price of Fig 76 as Shown, \$9.00. Including Fig. 77, Price, \$12.00.

IRON AGE HILL AND DRILL SEEDERS

Fig. 76 represents our No. 6 Hill and Drill Seeder, which is one of the best hand seeders on the market.



Fig. 76.

SINGLE WHEEL HOE

This is one of the best light all-round tools in existence; has extra high wheel, making it light running.

Price, including Seven Tools.....\$3.50

PRICES SUBJECT TO CHANGE WITHOUT NOTICE



## FARMING IMPLEMENTS—Continued

### GENUINE OLIVER CHILLED PLOWS



#### OLIVER No. 26 SULKY PLOW

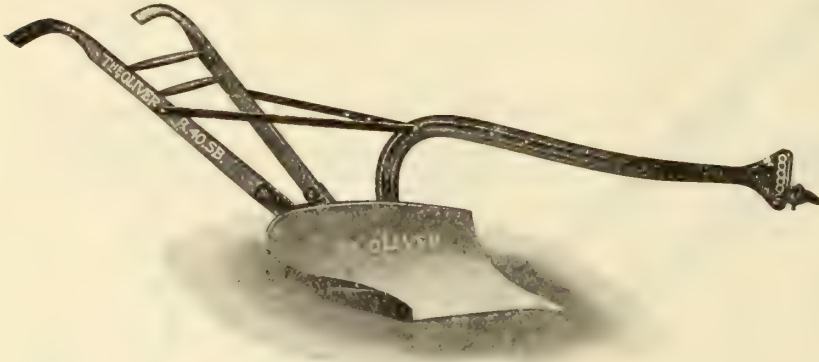
"Easy on the Man, but a hard worker itself"

This new member of the big Oliver family is a welcome addition and one which has already attained wonderful popularity.

How well these aims have been accomplished will be readily appreciated by a close examination of the power lift operated by a foot trip when riding or a hand latch when walking. By means of this "horse lift" which is brought into play by simply pressing forward slightly on the foot trip, the operator's work is diminished by fully one-half and it is not necessary to lean way back in an uncomfortable and often unsafe position to use the hand lever. With this plow the operator can keep his eye on his team and his hands on the reins, the feet only are needed in order to raise the plow.

One of the important reasons for the light draft of this plow is attributed to the use of the famous Oliver Chilled Cutter Shares which insure a new sharp cutting edge every time they are renewed, instead of having to do the cutting with the edge of the mould-board which gets rounding and dull and naturally increases the draft of the plow. Price complete, \$37.50.

#### Oliver Steel Beam Plows



All the strong features of the Oliver Wood Beam are incorporated in the Steel Beam Plow. Light draft is one of its strong points. Scouring in all kinds of soil is another equally valuable requisite.

We cannot too highly recommend the Oliver Steel Beam Plow. It makes friends wherever sold.

The Nos. 83 and 84. Steel Beam. Full Chilled. Right Hand only.

Price of No. 83, \$11.00. Price of No. 84, \$11.50.

All Jointers, \$2.00 extra. All Wheels, \$1.00 extra.

We carry all repairs for the Oliver Chilled Plows in stock.

#### GENUINE FARMERS' FRIEND PLOW

No. 5 .....	\$2.90
No. 7 R .....	\$4.50

**Can also furnish Syracuse Farm Plows. We carry a full line of Syracuse Plow Repairs**

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

THE OLIVER PLOW was introduced in this section more than thirty-five years ago, and is still the standard. The fact can be testified to by all of the farmers who have used them.

The word OLIVER is a synonym for excellence.

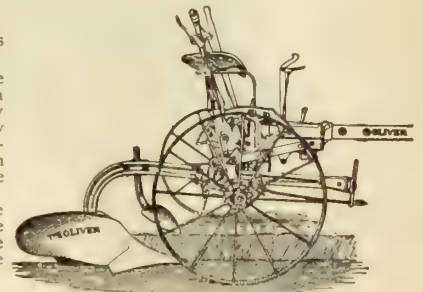
#### PLOWS—PRICES

No. A-1 and A-2 Right Hand only \$6.00  
WOOD BEAM—RIGHT AND LEFT HAND

No. B, Right Hand only.....	\$ 8.00
No. 10 .....	9.00
No. 13 .....	10.25
No. 19 .....	11.00
No. 20 (R. and L. Hand).....	11.50
No. 40 (R. and L. Hand).....	12.00
No. 40 XX (R. and L. Hand)...	12.00

The above are also furnished in Steel Beam.  
All Steel Beam Plows same price as Wood Beam.

Note.—A Clevis, Wrench and an extra share are included in prices for Plows fitted with Cast Shares, but wheels and jointers are not.



#### THE S-29 CHILLED SUBSOIL PLOW

This plow can be used as a subsoiler or as a middlebreaker, by attaching double mouldboard, which is made in one piece out of chilled metal, thus giving the buyer two plows at the cost of one, and that at a very low price.

Number S-29 Steel Beam, without mouldboard, capacity 9x4 in. Price \$7.

Number S-29 Steel Beam, with mouldboard, capacity 9x13 in. Price \$8.

The Nos. 83 and 84 are new patterns and intended for general purpose work, for which they are specially fitted. The mouldboards being made of the celebrated Oliver Chilled Metal and having superior turning qualities make these plows well adapted to sandy, gravelly and stony soils. They are of good capacity, are steady running and handle easily.

Our No. 88 is especially adapted to Virginia and Maryland soils, being well constructed and a good, heavy Plow; has straight land side, and the mouldboard has the usual turning qualities. Made in both Right and Left Hand. Price, \$12.00.

Rolling coulters, 14-inch steel disc. Fits any plow. Price, \$3.25.

#### Minor & Horton High Standard Plows—WOOD BEAM

No. 18 .....	\$3.00
No. 18½ .....	3.25
No. 19 .....	3.50
No. 19½ .....	4.75

Plain casting per pound, 4c.

We have a full line of repairs for M. & H. Plows and Farmers' Friend Plows on hand. Price, per pound, 4c.

FARMING IPLEMENTS—Continued



THE McCORMICK DOUBLE DISC HAR-  
ROW WITH FLEXIBLE FRAME

The I. H. C. McCormick Double Disc Harrow is just what its name indicates— two harrows combined in one, for the purpose of saving time and labor in tilling the soil. Its capacity is twice that of any other form of Disc Harrow, for it works the ground twice at one operation. One man and three horses operate the Twenty Disc, doing as much work as could be done with two ordinary harrows employing two men and 6 or 8 horses. Moreover, the work is more thoroughly done, for the second harrowing follows immediately after the first, before the freshly cut ground has had time to dry out or become hard. Price, with tongue truck, \$42.50.

SINGLE DISCS HARROWS

Price with fore truck, 8-16-in. Disc.....	\$24.00
Price with fore truck, 10-16-in. Disc.....	26.00
Price with fore truck, 12-16 in. Disc.....	30.00
A full line of extra teeth and parts in stock.	

SPRING TOOTH HARROW



	With Wheels.	With Runners.
Imperial, 15 tooth .....	\$16.00	\$15.00
Imperial, 17 tooth .....	18.00	17.00
McCormick, 15 tooth, with Runners.....		15.00
Imperial, 21 tooth .....	21.00	20.00
McCormick, 17 tooth, price with Runners....		16.00
McCormick, 23 tooth, price, with Runners...		22.00

SPIKE TOOTH IMPERIAL "U" BAR ZIG-ZAG HARROWS

MODEL "B" CLOSED END

This is a practically all steel implement. The Steel "U" Bars, Teeth and Clips are exactly the same. The outside frame is made of channel steel and the tooth bars are riveted to it by means of steel rivets. This construction gives protection to the tooth bars and prevents injury by their coming in contact with stumps, fences or other obstructions. It also affords protection to trees when the Harrow is used for orchard work. All teeth are 5-8-inch Steel.

50-Tooth, 2 Section .....	\$11.00
60-Tooth, 2 Section .....	12.50
One section of the above may be used for garden or light work with one horse.	
One Section of 60-Tooth Harrow.....	\$6.00

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

PLOW HANDLES  
PLANED AND FINISHED

1 1/2 in. x 2 1/4 in., 5 feet long .....	30c.
1 1/2 in. x 2 1/4 in., 5 feet long .....	40c.
1 1/2 in. x 2 1/2 in., 5 feet long.....	50c.

Malleable Clevises, Shacklets, Twisted and  
Straight Malleable Plow Rings and....  
Open Links

Full line of Bolts for all Plows.  
Prices on application.

SUCCESS, JR., POTATO DIGGER

The Success, Jr., Digger is made of Steel throughout excepting the beam and handles. Without question it is the most successful plow digger ever placed on the market.



IMPERIAL ALFALFA HARROW

This harrow is especially adapted to the cultivation of Alfalfa. Has 21 spring teeth and is mounted on wheels.

Price .....	\$22.50
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Reversible Harrow Tooth Points

Fastening device to the old tooth very simple, making any length desired. Points reversible. Has pulverizing qualities for any soil. Price, 15c.

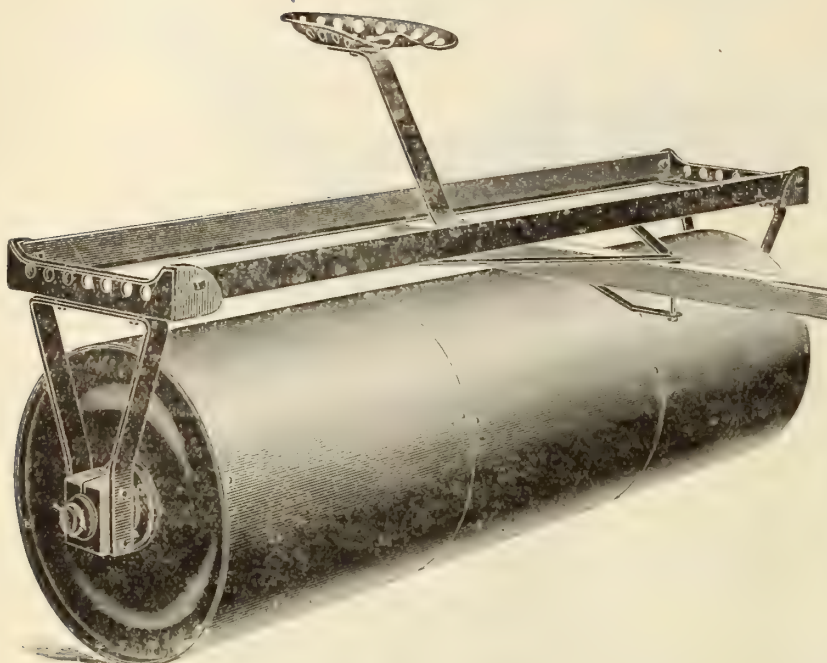
Spike Harrow Teeth

1/2 inch, 5/8 inch, 3/4 inch, 7/8 inch. Sizes. 5c. per pound.



## FARMING IMPLEMENTS—Continued

## Imperial Steel Land Roller



The Imperial Roller is built for hard service. It is strong, solid and substantial. The Drums are made of high carbon sheet steel, No. 12 gauge, and the ends are closed with tight fitting solid sheet steel heads, put together with bolts (not rivets). Dirt and stones are excluded from the interior of the Drums which turn independently on the axle.

Cast sleeves or collars are placed in the hubs at the ends of each Drum, and the wear, if any, comes on them and not on the axle.

The axle is made of 1 7/8-inch steel shafting and turns in hard maple boxes carried in steel hangers. We were the first to use hard wood boxes in Land Rollers, and years of service have proved their superiority. They are better than metal bearings for the conditions in which they are used, wear longer and are easily replaced by the farmer himself.

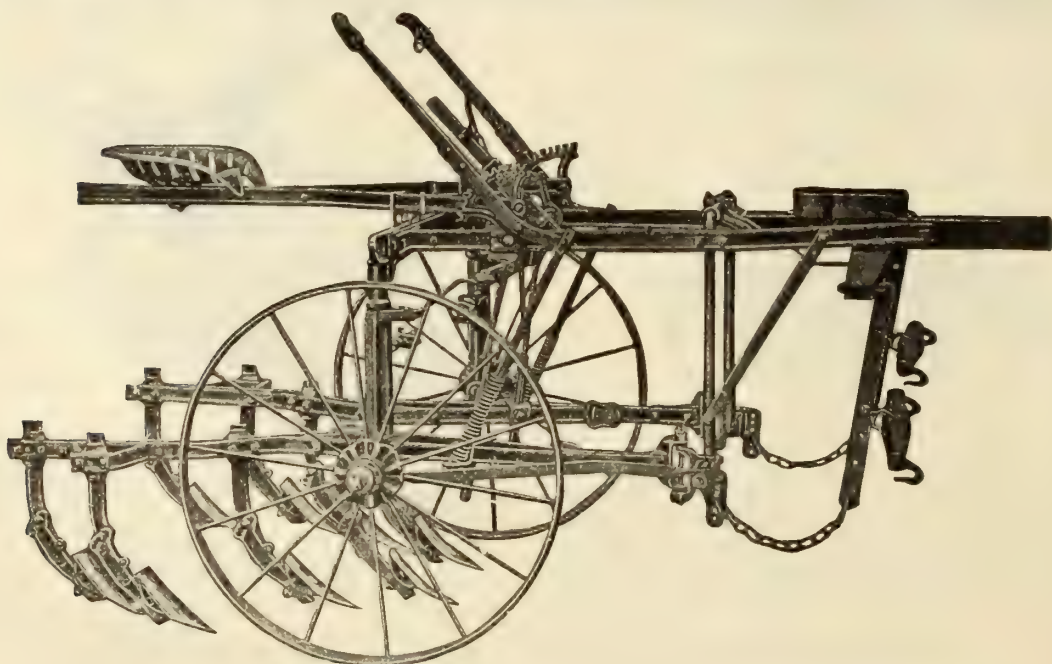
The frame or top of the Roller is made of steel, full 3/4-inch material, and is better, stronger and more durable than a wood frame.

The Imperial Roller is simple of construction, strong in every part and every pound of material is the best obtainable. With ordinary care it will last a life-time. Comparison with other Rollers in the following particulars is invited.

Weight and quality of steel used in drums; weight of steel used in frame; diameter of axle; construction of drums with closed heads bolted together; material and construction of hangers; bearing, as to durability, ease of renewal, and fitness for the service required.

No. 7, 8 feet, 3 sections, 24-in. diameter, 635 lbs. Price, \$27.50

## RIDING CULTIVATORS—THE DAYTON PIVOT AXLE CULTIVATORS



Has been constructed so as to avoid the faults found in the old style pivot-axle cultivators, and will meet the requirements of any section of the country.

The medium sized wheels create a quick movement and allow the machine to dodge further than the large-wheeled types of cultivators.

The Spindle and frame is supported on a ball which makes a very easily shifted axle.

The Gangs are shifted with the same movements transmitted to the wheels, causing a positive transverse action of the entire machine in the desired direction. With a very slight pressure

of the feet, the machine instantly obeys the wish of the driver and the wide dodging capacity allows of perfect cultivation, even when the rows are very crooked.

A Spreading Lever for the gangs, having some new and original ideas, makes it possible to control the gauge to a nicety without the use of a wrench.

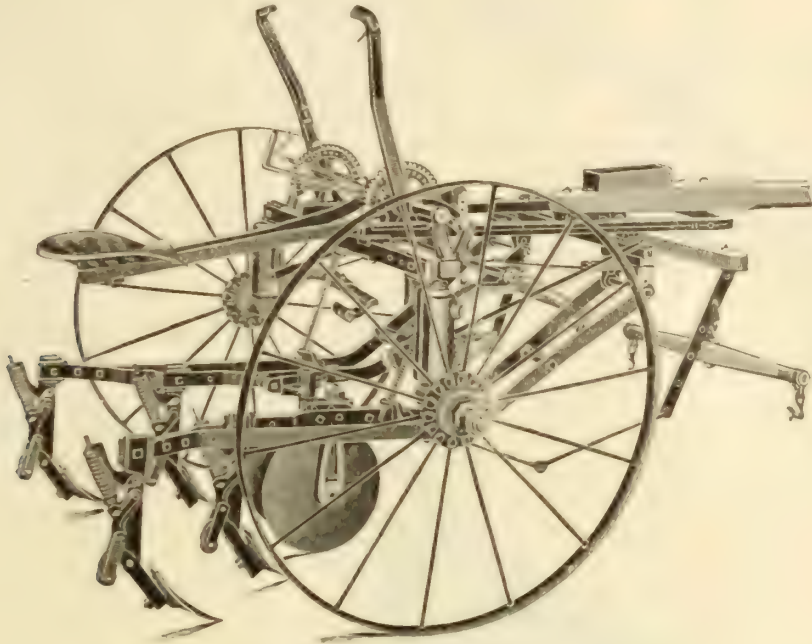
A Spring Pressure allows the levers to be set at the desired depth, and causes the shovels to instantly seek their cutting depth.

Price ..... \$30.00

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

FARMING IMPLEMENTS—Continued

The Buckeye Pivot Axle Riding Cultivators



Pressure of the foot on the foot-lever turns the wheels and moves the beams at the same time, thus shifting the entire cultivator instantly in the desired direction.

Space between beams can be instantly changed while the machine is in motion, by a convenient spacing lever.  
Single tongue; square tube steel frame; forty-two inch steel

wheels; spring pressure; steel seat adjustable for length and height; drop-hitch directly connected with beams; height of arch thirty-four inches; adjustable arch.

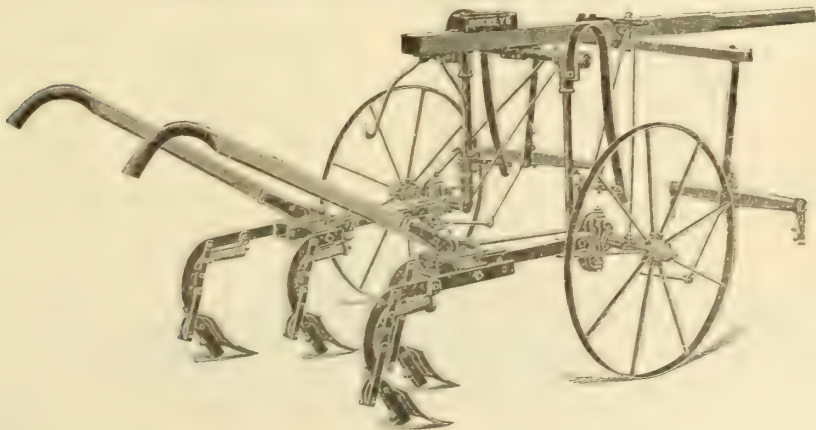
Especially adapted to crooked rows and hillside cultivation.

Price, with 6 Spring Shovels.....\$28.50

OLIVER RIDING CULTIVATOR

Ask to see the Oliver with its numerous good features.

BUCKEYE WALKING CULTIVATOR



The Buckeye Balanced Frame Walking Cultivator with parallel beams has many new and improved features, making it far superior in every way to any other cultivator of this style on the market.

The steel axle is of one continuous piece, giving it great strength.

Perfectly balanced. Light and neat in appearance. Steel wheels, 30 inches high, double tongue. Flat steel lifting springs.

Price, with 4 Spring Shovels.....\$18.00

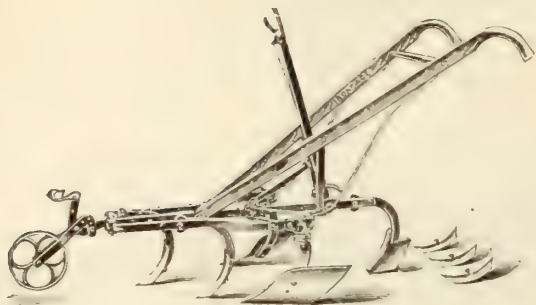
Price, with 6 Spring Shovels..... 20.00

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## FARMING IMPLEMENTS—Continued

### IRON AGE CULTIVATORS—No. 6 HORSE HOE



An up-to-date tool for the Twentieth Century farmer who wants quick, thorough work and a machine that can be adapted to the necessary operation to produce a first-class crop. He also wants a tool that he can hitch to, confident that when he unhitches he will have done a good day's work and that the tool will still be in good shape for the next day. The No. 6 meets these requirements—it can be adjusted for a wide variety of uses, and to meet the many conditions common to each vicinity—it has the necessary strength, yet light and compact.

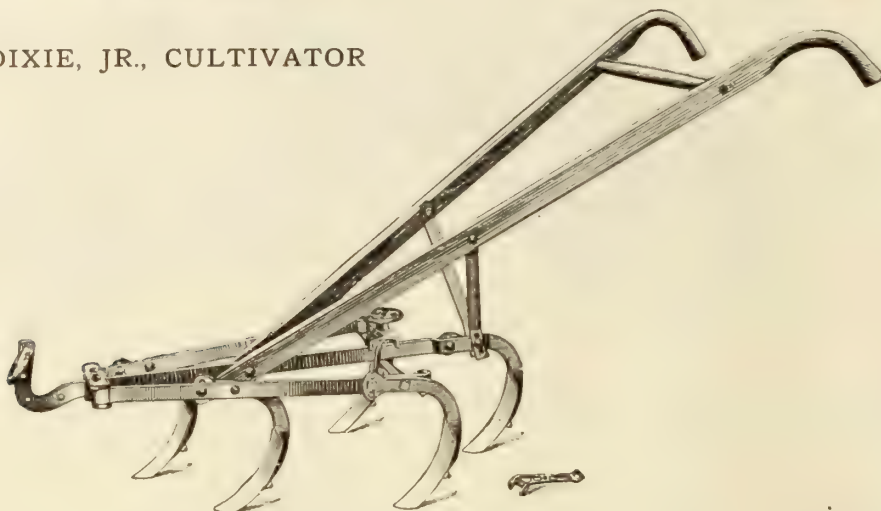
Price, as shown in Fig. 100..... \$6.00

### OUR DIXIE No. 1 CULTIVATOR

is a plain five-tooth cultivator. It is sold largely in sections of the country where laborers are careless or do not know how to handle the tools—where a strong, rigid, cheap tool is needed.

Price.....\$3.40

### DIXIE, JR., CULTIVATOR



This cut represents our Dixie, Jr., Cultivator, for use in light, sandy soils. Is built on the same lines as our regular No. 1 Cultivator. Is fitted with wheel clamp expander. Opens to 20 inches and closes to 9 inches. This is our leader, and is sold at the special price of.....\$2.50

Farmers in all parts of the country have found this tool to be "right" in every way, and it has always been very popular. It is extensively used in cultivating sugar beets. The teeth are steel, diamond shaped, with a small cultivator point forged on one end. They are adjustable for depth and angle. For very close work, every other tooth (or as many as you please) can be quickly removed.

Price, as shown in Fig. 106.....\$5.25

### No. 1 COMBINED HARROW AND CULTIVATOR

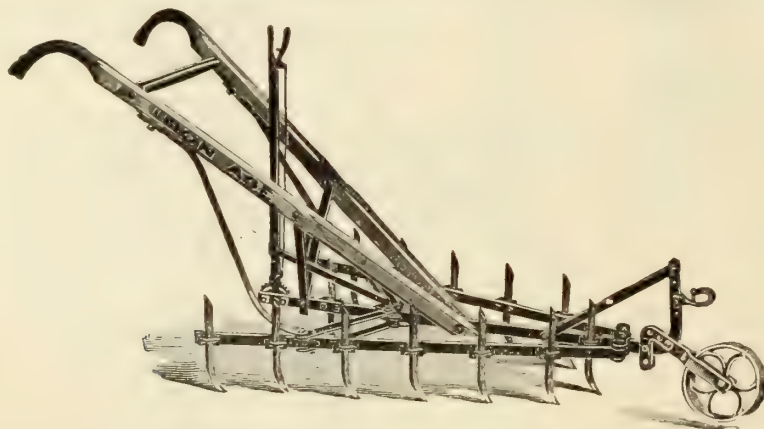


Fig. 106

#### IRON AGE CULTIVATOR STEELS

1 1/2 inches wide .....	7c	3 inches wide .....	8c
1 3/4 inches wide .....	7c	3 1/2 inches wide .....	10c
2 inches wide .....	8c	4 inches wide .....	12c
2 1/4 inches wide .....	8c		

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

FARMING IMPLEMENTS—Continued

No. 4 PLANET, JR., HORSE HOE

Price, with Wheel, \$6.25 Price, without Wheel, \$5.50.

Planet, Jr., Cultivator plates in stock.

This tool is low in price, strong and simple; it has our latest patent handle braces, firm, simple, strong, convenient. With

these the frame and handles seem most like one solid piece. Changes in width are very quickly and easily made by the patent expanders, and one side may be opened wide, and the other closed.

SHOVEL PLOWS—GENUINE MALTA



Steel Beam, Double Shovel.....\$2.75      Steel Beam, Single Shovel.....\$2.40

THE BUCKEYE ALFALFA AND GRASS SEED DRILL

Farmers have long felt the need of a machine that would drill all kinds of grass, clover, alfalfa and millet seeds in the ground the proper distance between the rows, at a correct depth and use no more seed than was necessary.

The Buckeye can be taken into a "patchy" Alfalfa field. The bare spots can be economically seeded, using just enough seed to properly do the work. It can also be used as a "renewer" and cultivator, working the growing plants and putting just a few seeds in the ground, thus avoiding the necessity of plowing up the field and losing seed, time and money. There are many alfalfa fields that could be saved and brought up to a maximum tonnage yield if the Buckeye Alfalfa and Grass Seed Drill was used to do the work.

This is just as true of Blue Grass and other meadows as it is of alfalfa. In rejuvenating old pastures with clover, or a mix-

ture of crimson clover and alsike, the forage is increased at a critical time—when pasture is short.

The Buckeye Alfalfa and Grass Seed Drill has 20 single discs, spaced four inches apart, giving a seeding width of 80 inches or 6 feet and 8 inches. These discs are set at a very slight angle—just enough to properly cultivate and form an admirable grass seed furrow. These discs are provided with a closed seed boot, protected by a suitable open shield which precludes the possibility of the seed being interfered with by wind or trash and conducts it to the bottom of the well made firm-bottomed seed bed, where germination takes place in the shortest possible time. All the seed being planted at an even and proper depth, it stands to reason that it will come up evenly, grow evenly and all the plants will be properly rooted. They will stand up under drought and produce a surer crop than is possible when sown by any other method.

TRIPLE SHOVEL PLOWS, OR  
GO-DEVIL

Regular, Steel Beam.....\$3.25

Full and complete line of polished steels for single, double, and triple shovel plows.

Price per pound.....7½c

FENDERS FOR SHOVEL PLOWS

Price.....35c each

BICKFORD & HUFFMAN, OR FARMERS'  
FAVORITE GRAIN DRILL

Too well known to need much comment. Ask for special catalogue.

Both the grain and fertilizer are positive force feeds, and will sow with absolute regularity any kind of grain or fertilizer in good condition. The grass seeder is also a force feed, and can

be used either in front or rear of the hoes; also quantity can be changed to any amount necessary. It is fastened on the frame and very low down, thus preventing the wind from blowing the seed away before reaching the ground. The fertilizer feed can be stopped or started at any time while the drill is in motion, which makes it convenient in case the operator does not wish to sow fertilizer while going over good ground.



8 x 8 Disc, with Grass Seeder attached.....\$72.50  
9 x 8 Disc, with Grass Seeder attached..... 77.50  
10 x 8 Disc, with Grass Seeder attached..... 82.50

PRICES SUBJECT TO CHANGE WITHOUT NOTICE



## FARMING IMPLEMENTS—Continued

## B. &amp; H. Spring Hoe Grain and Fertilizer Drills

8 x 8 Spring Hoe and Grass Seeder attached.....	\$70.00
9 x 8 Spring Hoe and Grass Seeder attached.....	75.00
10 x 8 Spring Hoe and Grass Seeder attached.....	80.00

## ONTARIO GRAIN DRILLS

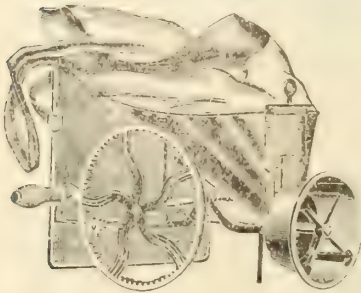
8 x 8 Spring Hoe and Grass Seeder attached.....	\$70.00
9 x 8 Spring Hoe and Grass Seeder attached.....	75.00
10 x 8 Spring Hoe and Grass Seeder attached.....	80.00

Prices on Larger Sizes on Application.

Ask for Special Catalogue of Grain Drills.

## Broadcast Seed Sowers

## CAHOON



This Sower is well made, frame being of malleable iron, hopper of steel, has brass discharger. Will sow Clover, Timothy, Millet, Oats, Wheat, Buckwheat, Barley, and Rye, with great accuracy. A full set of directions with each machine.

Price.....\$3.00

## Columbian

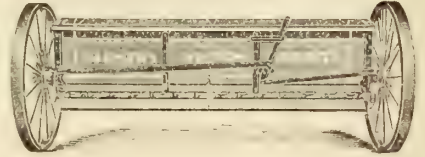
This is a first-class machine and will do equally well the same amount and kind of work as the Cahoon. Any one desiring a convenient, practical, and all around Grass Seeder, we cannot recommend the Columbian too highly.

Price.....\$1.50

## Cast Iron Stone Boat Head

This is a simple device with which a boat for stone or any other material may be made easily and at small expense. Size, 34 inches wide.

Price.....\$4.00

Farmers' Favorite Broadcaster for Sowing  
Fertilizer, Lime, Ashes, Land Plaster  
and Chemicals

This Broadcast Fertilizer Sower is fully equipped for and adapted to sowing large quantities of fertilizer per acre. The hopper is of great capacity, mounted on large wheels, making easy draft; at the same time the arrangement of the hopper relative to the ground is such as to deposit the fertilizer just where it is wanted without danger of the wind blowing from one side to the other.

Price.....\$42.50

We have a full line of Grain Drill Points for all leading Drills; also Spiral Steel Tubes and Gum Tubes for all makes of Drills.

## Potato Planters

## IRON AGE (IMPROVED ROBBINS) POTATO PLANTER

A light weight, light draft, strong, compact potato planter with a record of many years perfect planting such as none other can point to. In localities where they are used at all they are used almost exclusively—as soon as a grower learns what the Iron Age has done for his neighbor, he wants one and gets it. If he speaks in time. Its perfect work is marked by four things especially—while it handles all the seed automatically from hopper to seed spout, it does not injure a single piece—although a boy is necessary to make corrections, the net profit to you is far greater than if you planted with any other machine—no matter what distance apart you want to put the seed, you can do it and be sure there is a piece in every space and one only—although you sow fertilizer at the same time, none of it touches the seed.

Price, with Fertilizer Attachment (includes whiffletrees and neck yoke) complete .....\$78.00



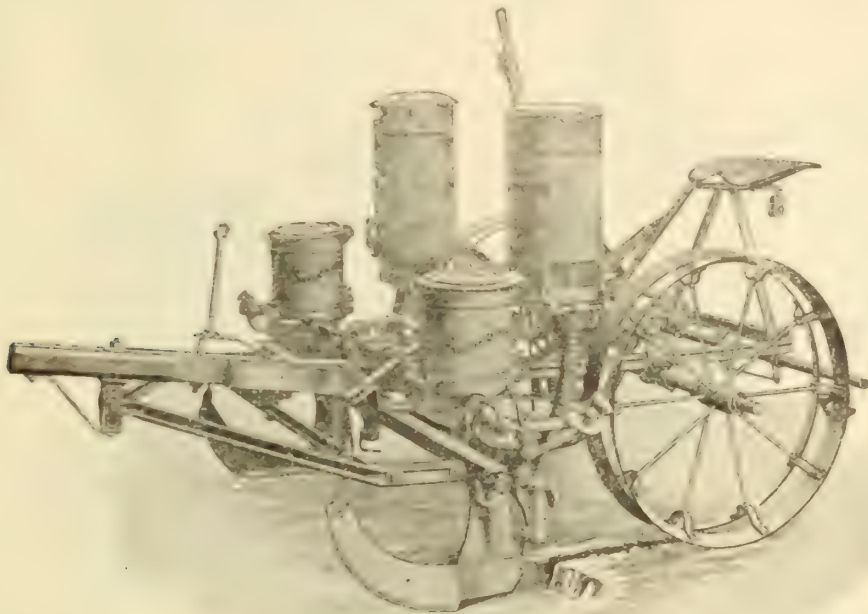
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FARMING IMPLEMENTS—Continued

SUPERIOR CORN PLANTERS

Every farmer who raises corn desires each succeeding year to raise more corn from the same acreage. There are many contingencies which may, and do, effect results. All are agreed that success depends upon the seed, accuracy of planter, and soil conditions. The latter, of course, is entirely in the hands of the farmer, so also might we say of the seed, but the machine between the team and the seed is the one proposition of which is demanded by

every farmer. The Superior Corn Planter has been thoroughly tried in all corn-raising sections, proving the worthiness of the name it bears. The quality went in before the name went on. The Superior Corn Planter possesses new features—good sensible helps for the user. Adjustable in width, in 2-inch steps, from 28 inches to 48 inches.



Price of complete Planter, with 80 rods of check-row wire and Fertilizer Attachment, as shown in cut.....\$50.00  
Price, with 80 rods of check-row wire, without Fertilizer Attachment ..... \$40.00  
Flat and Edge Drop, add \$1.00 for Disc Points.  
Superior One-Horse Model Corn Drill, with or without Fertilizer Attachment, suitable for field or sugar corn, peas, beans, etc.  
With Fertilizer Attachment ..... \$12.50  
Without Fertilizer Attachment ..... \$11.00

CORN KING MANURE SPREADER

No machine is of more practical value to the farmer than an I. H. C. manure spreader, because it enables him to realize the full value of his barnyard manure, and thereby maintain the productivity of his soil. The usual methods of handling manure are wasteful and require a great deal of hard labor. A spreader saves the hardest part of the labor and most of the waste. It brings a tangible return in increased crops and improved condition of the soil, and is therefore a decidedly practical machine. If this country is to maintain its supremacy in agriculture, farmers must conserve the fertility of their soil. The liberal use of barnyard manure handled by means of a manure spreader is the one practical and economical method of accomplishing this result.

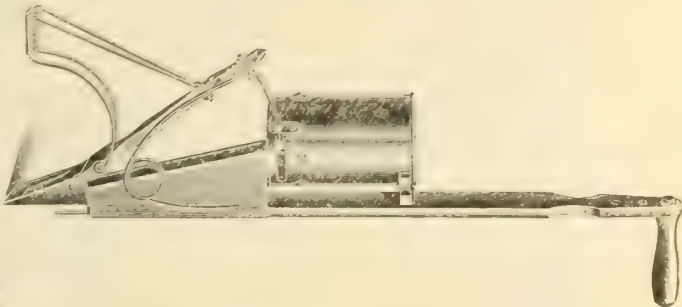
Made in the following sizes:  
No. 2, capacity 40 bushels..... \$115.00  
No. 3, capacity 55 bushels..... 120.00  
No. 4, capacity 75 bushels..... 125.00  
Ask for special catalogue.

OHIO ONE-HORSE CORN DRILL

With Fertilizer Attachment.....\$12.00  
Without Fertilizer Attachment..... 10.00  
Extra Check-Row Wire in 10, 20, 40, and 80 rod lengths, per rod, 6c.  
Corn Planter Runners for all popular planters.  
Price per pair for Superior Steel Runners.... \$4.00  
Corn Planter Links for splicing check-row wire, 75c. per doz.

HAND PLANTERS

For Planting and Re-Planting Corn, Beans, Etc.



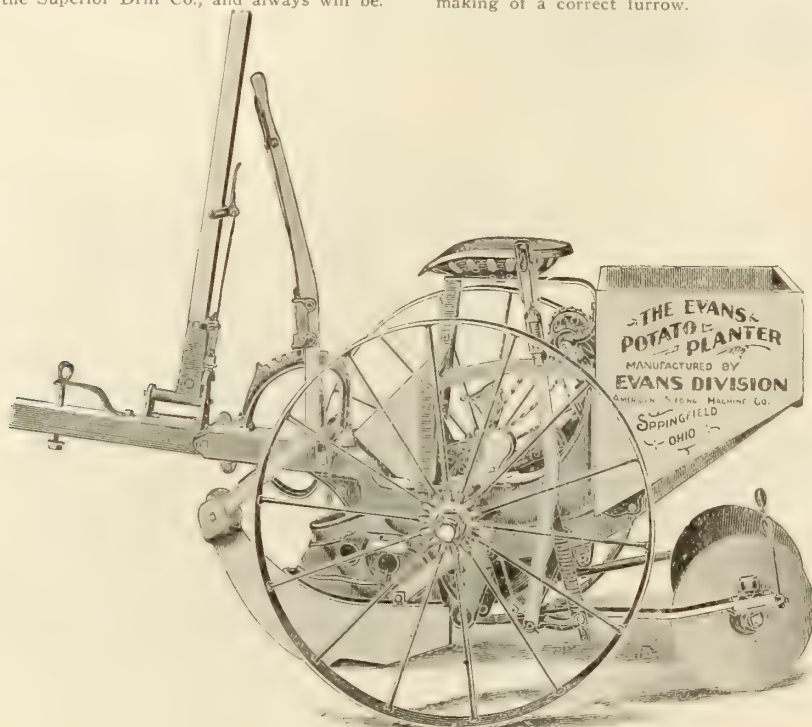
Price ..... \$1.75



**FARMING IMPLEMENTS—Continued**  
**THE EVANS POTATO PLANTER**  
 PLAIN AND FERTILIZER      SELF ADJUSTABLE  
 POSITIVE FORCE FEED

The improvements on our Evans Potato Planter are of vital importance to potato growers. The Evans in its old form was acknowledged to be the most perfect potato planter in use. We were not content with "good enough." Our determination is to improve wherever improvement is possible. That has always been the policy of the Superior Drill Co., and always will be.

Among the improvements are the furnishing of two sets of Picker Arms instead of one; the double drive, which insures perfect working of planter on hill-side or level ground; dust-proof oilers for lubricating axle and covering disc bearings; the adjustable disc marker; also the improved design of furrow opener, which greatly aids in the lightness of draft and the making of a correct furrow.



The Evans Potato Planter is the most perfect planter on the market, because it is made better and will do more and better work with less labor, thereby producing larger and more profitable crops at a decreased expense to the owner.

In ease of operation the Evans is far in the lead. One person can operate it anywhere under any and all conditions of seeding, whether it be on hill-sides or level ground.

Price Complete, with Fertilizer Attachment.....\$65.00

# McCORMICK

## McCORMACK BINDER

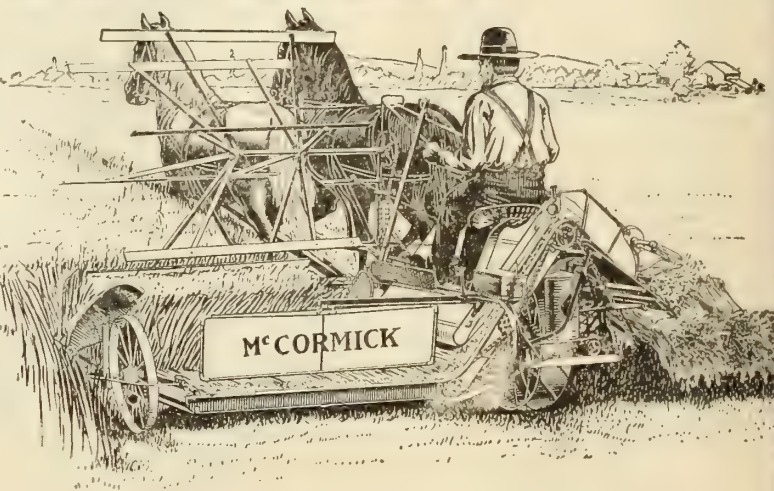
The McCormick Binder is the outgrowth of the first reaper which was invented in 1831, and has always been the standard of construction. The reason for this is that the machine has progressed with the times—it has been improved each year so that it is now a model of perfection. The McCormick Binder naturally has an excellent reputation because it has done splendid work for so many years in all countries of the world. Thousands of these machines are in use and each farmer who owns one appreciates the features which make it efficient.

When grain is down and tangled, the McCormick Binder will cut it successfully because the reel and the platform can be adjusted readily to meet the conditions. All bearings are accessible for oiling. The machine is easy to operate and light in draft, because it is equipped with ball and roller bearings, which minimize friction. The McCormick Binder is noted for its durability, which is a result of strong construction and the use of proper material.

6-foot Cut, with Bundle Carrier and Transport, \$120.00.

7-foot Cut, with Bundle Carrier and Transport, \$125.00.

8-foot Cut, with Bundle Carrier, Tongue Truck, and Transport, \$140.00.



PRICES SUBJECT TO CHANGE WITHOUT NOTICE

FARMING IMPLEMENTS—Continued

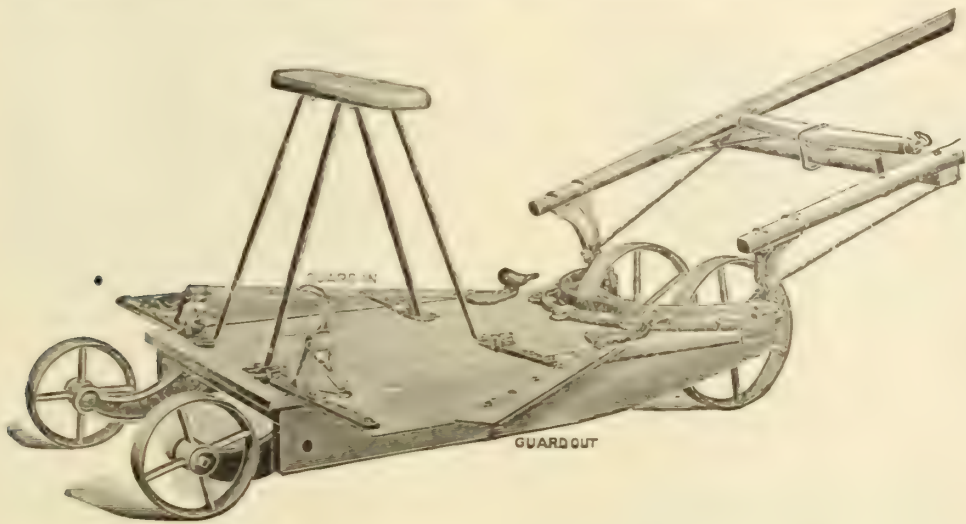
THE MONARCH WOOD FRAME CORN HARVESTER

With Patent Automatic Knife Guards.

The Monarch is a wood frame machine and is considerably lighter draft than the steel frame.

A Corn Harvester is no longer an experiment, but is one of the most useful and most practical labor-saving machines in use. The Monarch is the triumphant competitor of all on the market, including the Corn Binders. It has been demonstrated time and again that corn should not be bound tightly, as it invariably

molds, and that the loss because of ears being torn off is immense. All this will be saved if the Monarch is used, and the cost is only a fraction of that of the binders. There is no expense for twine, and no large repair account each season. The Monarch will do the work quicker (it cuts two rows at a time) with less loss and with fewer horses and men. It pays for itself in a few days and lasts a lifetime.



Price . . . . . \$200.00

McCORMICK CORN BINDER

The McCormick Corn Binder will cut corn of all lengths. It will also work well in corn that is down, tangled, and lodged. This is possible because the machine is provided with convenient adjustments which enable the operator to raise and lower the gatherer arms, so that the fingers of the conveyer chains which extend to the points of the gatherer arms can grasp and elevate corn that is lying almost flat upon the ground.

The band shifting attachment also has a wide range of adjustment, and the bundle can be tied around the center even though corn be extremely long or short.



Price, with Bundle Carrier . . . . . \$120.00

McCORMICK LITTLE VERTICAL MOWER

The McCormick Little Vertical Mower has been designed to meet the demand for a mower of small capacity that can be pulled by one horse. It is adapted for mowing lawns, parks, orchards, and cemeteries, because it can be operated in places where a large two-horse machine could not go.

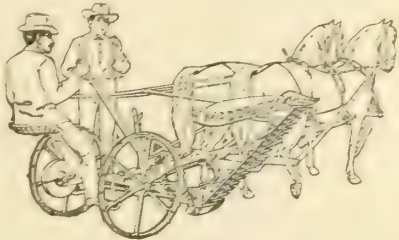
3½ foot and 4 foot Cut . . . . . \$37.50

McCORMICK VERTICAL LIFT MOWER

The McCormick vertical lift Mower has been designed for cutting on rough and stumpy ground, where a plain lift mower could not be used to good advantage. This mower is a practical machine for all kinds of grass cutting. The cutter bar can be raised to a vertical position and lowered without stopping the team. When the bar is raised, the machine is thrown in and out of gear automatically. This feature permits the driver to cut close to a tree, stump, or rock, and save all the hay without loss of time or inconvenience.

The McCormick vertical lift Mower will cut grass successfully in any place where the machine can be drawn by horses, and it will do good work under conditions where an ordinary machine could not be used.

As an all-purpose machine, the McCormick vertical lift Mower is unsurpassed—it will do excellent work in uneven fields where there are stumps and stones, as well as in level fields.



Prices:  
4½ foot and 5 foot Cut . . . . . \$42.50 . . . .  
New Big Four, 6-foot Cut . . . . . 45.00  
New Big Four, 7-foot Cut . . . . . 48.00

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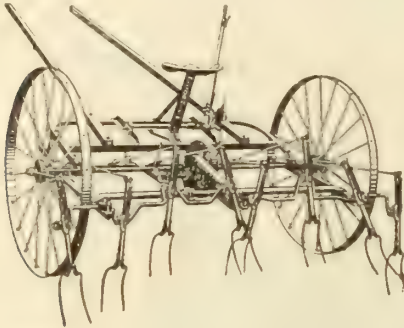


## FARMING IMPLEMENTS—Continued

### McCORMICK HAY TEDDER

Tedded hay cures in a very short time and for this reason the McCormick Hay Tedder is an invaluable machine for the hay grower. When it is used the farmer can handle the hay crop very quickly for the reason that hay can be tedded soon after it is cut.

The wheels, frame, and forks are made of steel which insures a substantial construction. The machine is driven by gears. The gear wheel which is mounted on the center of the axle drives the crank shaft to which the fork-arms are attached. All the forks are therefore given the full driving force of both wheels and the motion of the forks is uniform and positive—the heaviest hay will not retard the forks.



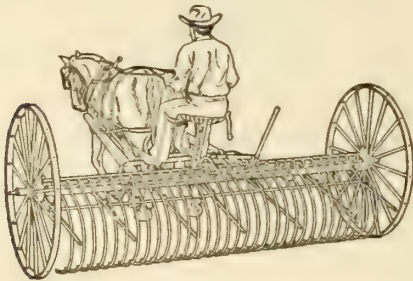
6 Forks .....	\$37.50
8 Forks .....	40.00

### McCORMICK SELF-DUMP HAY RAKE

The best material is used in the construction of the McCormick Self-Dump Hay Rake, which is simple in both design and construction. The wheels have staggered spokes and a heavy 2-inch channel tire.

The teeth on the McCormick rakes are made of selected spring steel having great strength and resiliency. The points of the teeth are so shaped that they will get all the hay without digging into the ground or picking up stones. Both the self-dump and hand-dump rakes can be operated with either one or two horses by simply adjusting the shafts. The wheels are fitted with removable hubs, which can be easily replaced at a small cost, thus practically renewing the wheel.

In a word, this rake is designed to have the maximum strength and rigidity with the lightest weight possible; and agriculturists will find that the McCormick Self-Dump Rake meets every requirement for gathering the hay into windrows.



#### Prices:

8 feet, 20 Teeth, Self Dump.....	\$21.00
9 feet, 23 Teeth, Self Dump.....	22.00
10 feet, 26 Teeth, Self Dump.....	23.00

### McCORMICK HAND DUMP RAKE

The McCormick Hand-Dump Rake is efficient in all conditions of hay and fields. The weight of the driver is utilized on this rake to help raise the teeth for dumping. Over-cleaners are used on this rake, which act in the same thorough manner as the under-cleaners on the self-dump rake. The advantages of using over-cleaners instead of under-cleaners on this rake is that the load is taken off the operator. Those who prefer the hand-dump rake will find that the McCormick is built correctly.

8 Feet, 20 Teeth .....	\$18.00
------------------------	---------

### McCORMICK HUSKER AND SHREDDER

The McCormick Little Giant Husker and Shredder is regularly furnished with 4 and 6 rolls. This machine is especially desirable for the farmer who husks and shreds his own corn, or for the man who desires to do commercial work on a small scale. The capacity is sufficiently large to turn out a good day's work without requiring a large number of men to keep the machine in operation. It is also the most practical machine for the man whose power is limited.

4 Rolls, Capacity 56 to 60 Barrels Ear Corn per day
6 Rolls, Capacity 65 to 80 Barrels Ear Corn per day

Ask for special catalogue and prices.

### McCORMICK IMPROVED HUSKER AND SHREDDER

The McCormick Improved Husker and Shredder is an 8-roll machine, designed to meet the demand for a husker and shredder that will turn out large quantities of work in a comparatively short time. This machine requires considerable more power than the McCormick Little Giant Husker and Shredder, and it would not be practical to operate it with less than 20-horse power.

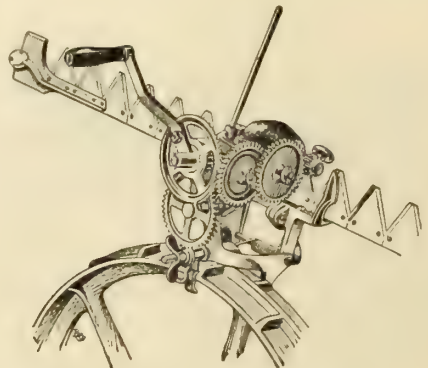
Ask for special catalogue and prices.

McCormick Big 8 Roll, specially used for custom work.

8 Rolls, Capacity 90 to 125 Barrels Ear Corn per day.

### McCORMICK KNIFE AND TOOL GRINDER

This device is convenient for use in the work shop or in the field, as it can be readily attached to a bench or mower wheel. Unless the knife be kept sharp, it is impossible to secure the best results with a mowing machine, and the McCormick knife grinder enables the farmer to always keep the knife sharp—and the work of sharpening requires considerably less time than is possible with the ordinary grindstone. A cylindrical stone for grinding tools is furnished on special order. A stone for gumming saws can also be furnished on special order. When desired a foot power attachment will be supplied at a small additional cost.



McCormick Knife and Tool Grinder.

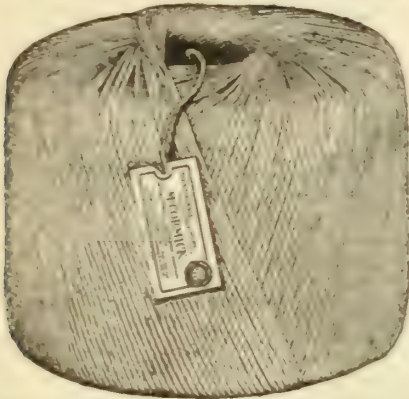
Price, with Wheel for Grinding Mower Sections.....\$4.00

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

FARMING IMPLEMENTS—Continued

McCORMICK BINDER TWINE

It is well understood that good binder twine is essential to successful binding. The harvest season lasts only a few days and delays nearly always result in more or less loss. Binder twine that kinks and breaks is not worth hauling home, because it is not only a source of annoyance while harvesting the grain, but it also delays the work of shocking. When bound with in-



ferior twine the bales break open when they are pitched to the wagon and stack, and with such bundles it is almost impossible to build a stack that will shed water. Uniform size and strength are the characteristic features of the McCormick binder twine. It will not kink and clog the knoter or pull thin and break. The different brands of McCormick twine are Sisal, Standard, Manila, and Pure Manila.

Lowest market prices on application.

INTERNATIONAL SIDE DELIVERY HAY RAKE

This is an all-metal rake, except the tongue. The frame is made of high-quality steel, and is very substantial. The crank shaft carries four forks, and rotates in three bearings. The propelling power is transmitted from near the right front wheel to the center of the crank shaft by means of an efficient chain drive. Each fork is equipped with six tines, which, under ordinary conditions, are practically unbreakable. This rake will handle any growth of hay in any condition. It will not rope wet hay, but rather gives it a motion which facilitates drying. It will handle dry hay without knocking off the heads and leaves which constitute a valuable part of the crop. It leaves a light, fluffy windrow, which is easily taken up by the loader or put into cocks for curing.

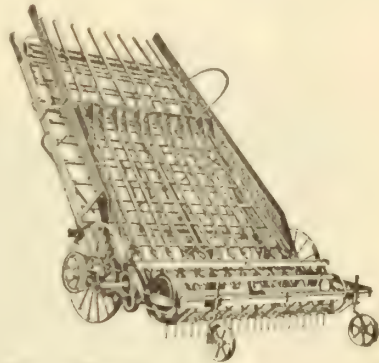


Price .....\$58.00

NEW KEYSTONE SWATH AND WINDOW HAY LOADER

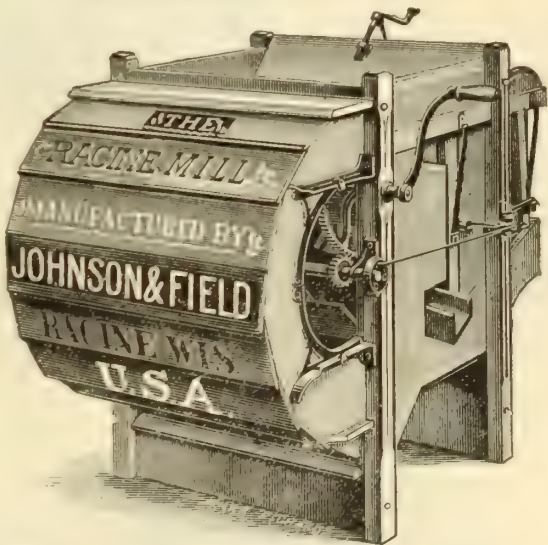
The New Keystone Swath and Windrow Hay Loader is doubly valuable to the hay grower, because it will gather hay from the swath as clean as any rake, and deliver it to the wagon, without any threshing or beating. The driving mechanism of the New Keystone is very simple and efficient, there being no complicated gears to get out of order and cause troublesome delays. The elevator is driven by large sprockets directly attached to the main axle, which takes its power from the main wheels. The gathering drum is mounted on a substantial frame, which is

hinged to the main axle and supported at the rear by two castor wheels. This construction permits of automatic adjustment to uneven ground and wagons of different heights. The castor Wheels are adjustable and the drum can be either raised or lowered to suit field conditions. There are four tooth bars on which the teeth are so arranged that they gather all the hay, yet releases it at the proper time to prevent winding. The teeth are made of the best quality spring steel and are mounted so they will neither break nor tear up the sod. In finish and general appearance the Keystone is unequalled, and in ease and efficiency of operation it outranks any other make of loader on the market.



Price of Swath ..... \$60.00  
Price of Swath and Windrow ..... 65.00

IMPROVED GRAIN FANS



Johnson & Fields', complete, with necessary sieves for all form of seed, \$20.00.

Lyon's, handmade, complete, with necessary sieves for all form of seed, \$25.00.

MACHINE REPAIRS  
SPROCKET CHAINS.

No. 25, per foot .....	12c.
No. 32, per foot .....	12c.
No. 35, per foot .....	13c.
No. 42, per foot .....	15c.
No. 45, per foot .....	15c.
No. 55, per foot .....	18c.

Repairs for standard makes of Harvesting Machines kept in stock or promptly gotten on short notice.

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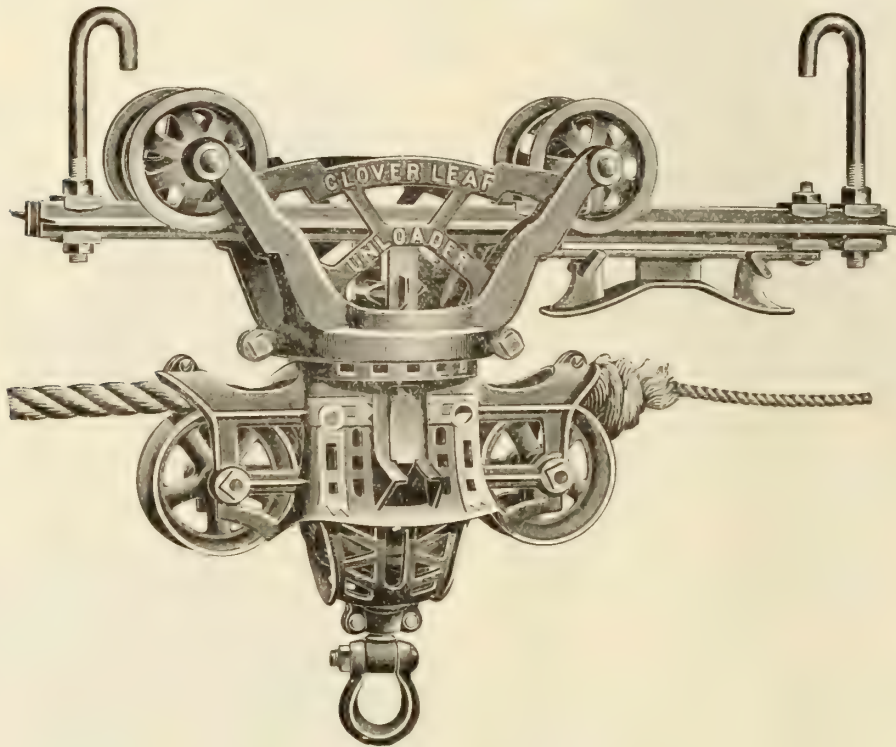


FARMING IMPLEMENTS—Continued  
MYERS' HAYING TOOLS

This cut represents the Celebrated Myers Clover Leaf Unloader for double-steel track. Is heavy and substantially made of malleable iron throughout. Is fitted with wide mouth to receive fork pulley when approaching from any direction. Has swinging fork pulley which relieves the carrier from strain when drawing hay over beams or into wellfilled mow. None better.

The patent double steel track for this carrier is made by placing two T steel rails together, held to place by the three-bolt clamps, thus making a track of the same strength throughout. No riveting. A wrench is the only tool needed to erect same.

Price of Unloader ..... \$4.50                      Price per foot, including splice irons..... 12c.



- Hanging Hooks, per dozen.....\$1.20
- Rafter Brackets, per dozen......60
- Knot Passing Pulley, each......35
- Floor Hooks, 5/8 inch, each......10
- Double Harpoon Fork, 25-inch tine, each.....1.25
- Double Harpoon Fork, 31-inch tine, each.....1.50

- Myers' Lock Lever Fork, 30-inch tine, each.....\$3.00
- Nellis' Single Harpoon Fork.....2.50

Ask for special catalogue.

We carry a full line of best long-fiber Pure Manila Rope for use in Haying Outfits at lowest market prices.

BARN DOOR HANGERS

Myers' "O. K. Stayon" flexible, covered, made with hard steel roller bearings.

Price, per pair, 90c.

MYERS' BARN DOOR TRACK

This track is extra heavy, made of special high carbon stiff steel, 3-16 inch x 1 1/4 inch.

Made in 4, 6, 8 and 10 foot lengths.

Price per foot, including screws, 8c.

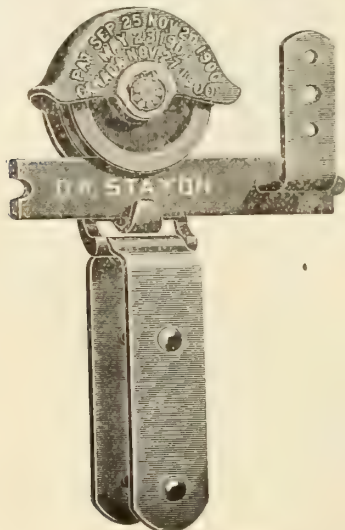
Myers' Stay Rollers for bottom of door, each, 20c.

Material Required for a Steel Track Outfit for Different Length Barns.

For a 40-Foot Barn.—One Carrier, 40 feet of steel track, 21 hanging hooks, 21 rafter brackets, 5 knot passing pulleys, 1 R. H. Fork, 6 floor hooks, 110 feet 13-16-inch manila rope, 40 feet 3/8 inch reverse rope.

For a 50-Foot Barn.—One Carrier, 50 feet of steel track, 25 hanging hooks, 25 rafter brackets, 5 knot passing pulleys, 6 floor hooks, 130 feet 13-16-inch manila rope, 50 feet 3/8-inch reverse rope.

For a 60-Foot Barn.—One Carrier, 60 feet of steel track, 31 hanging hooks, 31 rafter brackets, 5 knot passing pulleys, 6 floor hooks, 160 feet 13-16-inch manila rope, 60 feet 3/8-inch reverse rope.



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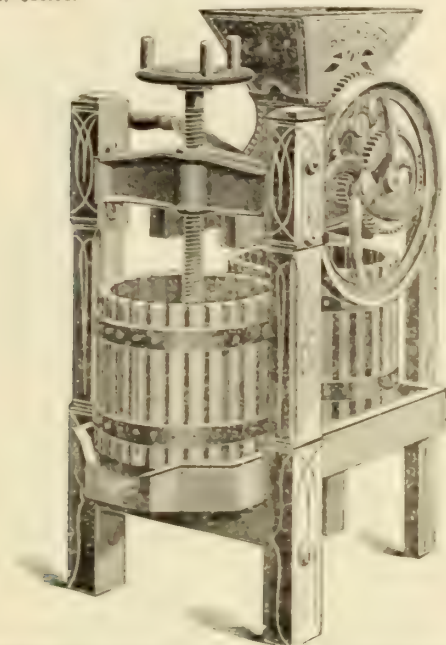
## FARMING IMPLEMENTS—Continued

## BUCKEYE CIDER MILLS

## SENIOR

This is our largest-sized Mill, adapted for hand or power, with a detachable handle on either side. The top set of rolls first mash the fruit fine, and the bottom set grinds it thoroughly, breaking all the cells, so that the cider is entirely extracted.

Price, \$30.00.



## "MEDIUM" DOUBLE CAGE HAND CIDER MILL

Similar to the Senior described above, but has one handle.

Price, \$16.00.

## "JUNIOR" DOUBLE CAGE HAND CIDER MILL

Built on same principle as Senior and Medium. Has one handle. This is the smallest Double Cage Mill we handle. A first-class mill for family use.

Price, \$12.50.

## FRUIT PRESS

This Fruit Press is operated easier and has less parts to take care of or get out of order than any other press on the market. It is cheaper than any other press, yet just as desirable, and will do the work equally as well as any other.



4 quarts .....	\$3.50
6 quarts .....	4.00
8 quarts .....	4.50

## SPECIAL CIDER AND WINE MILL

Especially adapted for grapes and fruits as well as apples.

Price, with one cage and grinder, \$9.50.

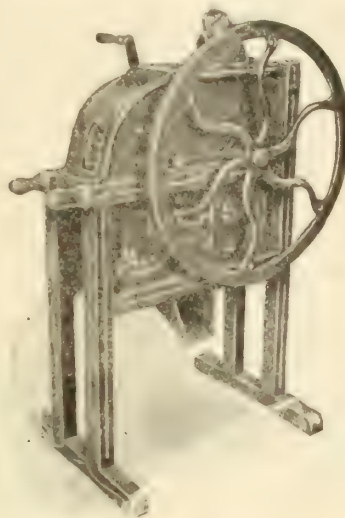
## BERRY PRESSES

No. 1 .....	\$3.00
No. 2 .....	3.50
No. 3 .....	6.00

## CORN SHELLERS

Our No. 3 One-Hopper Sheller, with cob separator and sieve, is one of the best hand shellers ever offered. Specially adapted to large corn.

Price ..... \$7.50



Our No. 7 Two-Hopper Sheller, with adjustable shaker, which separates the cob from the corn and chaff from the corn, made for hand and power, furnished with combined fly-wheel and 20-inch pulley.

Price ..... \$15.00

## RED CHIEF HAND CORN SHELLER

A very convenient sheller for poultry-yards. Can be fastened to box or barrel.

Price ..... \$1.50

## INTERNATIONAL FEED GRINDER



The International Feed Grinder is simple in construction and operation. It can be operated with a large or small amount of power—the capacity being determined by the amount of power used. The plates can be adjusted to grind fine or coarse.

The International Feed Grinder is built in two styles. One

PRICES SUBJECT TO CHANGE WITHOUT NOTICE



FARMING IMPLEMENTS—Continued

INTERNATIONAL FEED GRINDER—  
Continued

style is designed especially for grinding corn on the cob; however, it will also grind wheat, barley, oats, Kaffir corn, etc. This style of mill is built in two sizes—a small size with 8-inch grinding plates, and a large size with 10-inch grinding plates. The other style is designed for grinding small grain only and is especially desired by those wishing a high-speed mill that will grind small grain very rapidly. This style mill is built in one size only with 8-inch grinding plates.

8-inch .....	\$27.50
10-inch .....	\$37.50

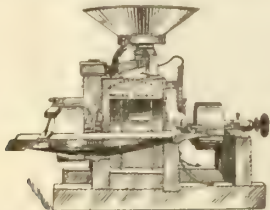
Ask for special catalogue.

“MEADOWS” WHITE FLINT GRANITE  
MILLS

The highest perfection in White Flint Granite Mills for grinding finest bread meal, also the best feed grinders.

Portable; most convenient; inexpensive for use on small farms; capacity unlimited for largest farm output, or equal to the needs of a general milling business.

Buy a Meadows Portable Mill and grind at your convenience your own clean, sound corn, thereby insuring yourself that you have bread that is wholesome and healthy.



These mills are made in four sizes, viz: 30-inch, for parties who desire large capacity and have sufficient power for fast and heavy grinding; 24-inch for general grinding when a capacity of from 80 to 200 bushels is required with from 8 to 15 horsepower; 20-inch, for grinding feed and general farm use, and our 16-inch “Little Wonder,” where small power is used, such as from 2 to 6 horsepower.

FEED CUTTERS—“OHIO” HAND  
CUTTERS

Are strongly constructed and light running, having minimum number of mechanical parts which are made of best material.

No. 8½ .....	\$15.00
No. 10¼ .....	\$18.50

No. 9, for hand or power, is heavily constructed and can be used for cutting fodder or ensilage or hay. Price, \$27.50.  
No. 11, with two knives, 11 inches long, Price, \$30.00.

“OHIO” STANDARD FEED AND  
ENSILAGE CUTTER No. 11  
EQUIPPED WITH BLOWER ELEVATOR

The No. 11 Cutter has long been our most popular size for general farm use. It is adapted to cutting all kinds of dry, feed as well as ensilage, is strongly and durably built, has large capacity, and requires but slight power to run. The pipe is 7 inches in diameter and is made of galvanized steel with standing seam on the outside running lengthwise, being very rigid. It is made in 4, 6 and 10 foot lengths, with 7-inch slip joints and a clamping band at each joint. The pipe connection at the fan case is a swivel joint which gives the pipe the proper angle for convenience and best results, and allows it to turn in any direction. Included with each machine is a hood or elbow which is to connect to upper end of pipe and convey the cut ensilage into the silo.

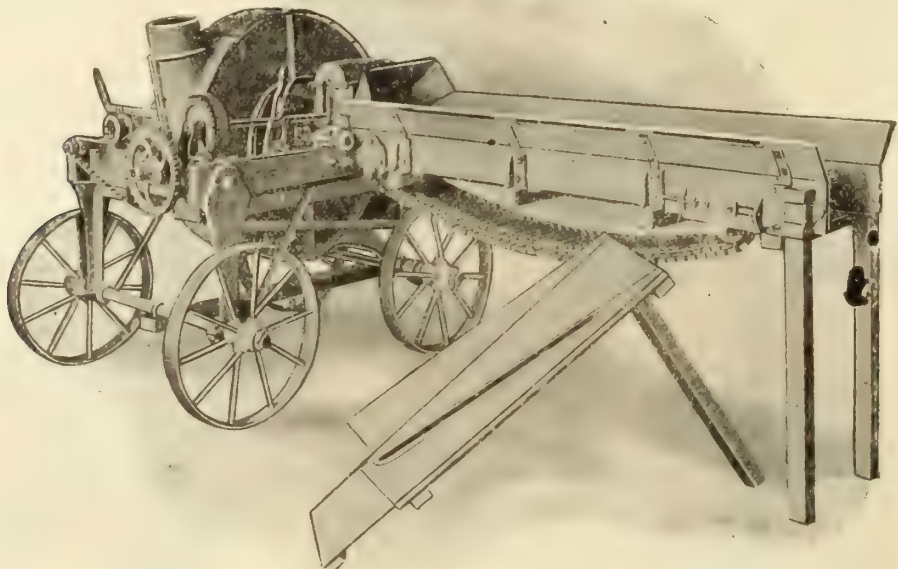
Set Pipe Nearly Perpendicular for Ensilage. Dry Feed Can Be Blown in Any Direction.

No. 11, with two 11-inch knives, cuts ½, 1 and 2 in.....	\$70.00
No. 11, with two shredder blades, no knives.....	72.50
Above prices are for machines complete with Blower and Hood, but no pipe.	

7-inch galvanized pipe in 4, 6, and 10-foot lengths, per foot .....	5c.
Cutting knives, each .....	\$1.50
Shredder blades, interchangeable with knives, each.....	2.25

Ask for special catalogue and prices of larger sizes.

WHIRLWIND CUTTING BOX



Smith Lever Box.

This box is built to supply the demand for an efficient Silo Filler which can be operated with 3 to 5 horsepower. Capacity 3 to 5 tons green fodder per hour.

Price, mounted on wheels, complete, with 30 feet 6-inch Blower Pipe .....

We sell the famous Smith Lever Hand-Made Cutting Box. Price, \$6.00.

THE PENNSYLVANIA FEED CUTTER is a splendid one where a small-size one is needed. Has 11-inch curved blade and can be adjusted to cut any length. Price, \$3.00.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

FARMING IMPLEMENTS—Continued



SAMSON MOUNTED GRINDSTONES

This is a splendid stone for farm purposes. Frame made of hardwood; operated by one pedal.

No. 3, stone about 18 inches diameter.....\$3.50  
No. 2, stone about 22 inches diameter..... 3.75  
THE AUTO GRINDSTONE has a steel frame and is ball-bearing, and is operated with two pedals, making it very light running. Stone about 18 inches diameter. Price, \$5.00.  
We carry a full line of loose stones of all sizes. Price, 2 cents per pound.

Also a line of Grindstone Mountings.

FAMILY GRINDSTONES

A very useful stone for the house. Mounted on malleable frame.

7-inch diameter ..... \$1.25  
8-inch diameter ..... 1.50

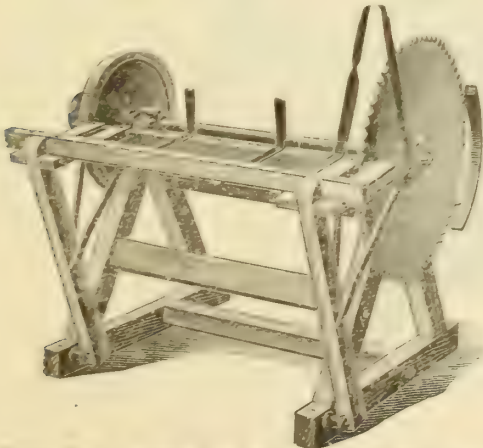
EMERY STONES

This stone runs at very high speed and is suitable for use in shops or farm purposes for grinding edge tools.

Price ..... \$2.00

WOOD AND POLE SAWS

The American "Clipper" Wood Saws are especially constructed for sawing poles or slabs, as well as cord wood. Have seasoned hardwood frames, carefully framed and butted strongly together. These saws have 1 7-16-inch polished steel mandrels, 52 inches long, with large collars and long habbited boxes 6 inch drive pulleys and extra heavy balance wheels. Will carry saws up to 30 inches in diameter.



Price No. 4 complete for poles or slabs, with 24-inch saw \$24.00  
Price No. 3 complete with 24-inch saw..... \$22.50

AMERICAN SPLITTER OR POWER AXE

Our Power Wood Splitter is designed to withstand the strains to which such a machine is subjected. It will soon pay for itself in the wood yard or on the farm for getting wood ready for market. Will split 6 to 8 cords per day. Adjustable to splitting wood 8 inches to 18 inches long, requiring only one horsepower to run the same.

Price ..... \$82.00

CROSS CUT SAWS



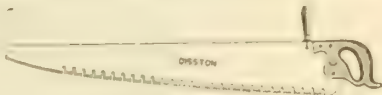
Narrow American, made by Henry Disston. Price, including handles, per foot, 30c.

Comes in 4, 4½, 5, 5½, and 6 foot lengths.

Disston's Wide Cross-Cut Saws. Price on application.

ONE-MAN CROSS CUT SAWS

HENRY DISSTON'S BEST GRADE



3-foot length .....\$1.75  
3½-foot length ..... 2.00  
4-foot length ..... 2.50

BUCK SAWS

Disston's Wood Brace Frame, single rivet, price, 75c.



HAND SAW

Disston's No. 7. An excellent saw for general purposes. Price, \$1.50.

Disston's No. 7 Rip Saw, price, \$1.75.  
Beaver Brand Saws from \$1.00 to \$1.25.

SAW BUCKS



A good hardwood folding Saw Buck. Price, 40c.

CORNER MANGERS

Made of best gray iron casting with inside flange. One of the best manglers in use; perfectly sanitary.

Price ..... \$1.50  
Square style ..... \$1.75

WROUGHT HAY RACKS

Far superior to cast-iron racks, as frequently used.

Price ..... \$1.50

PRICES SUBJECT TO CHANGE WITHOUT NOTICE



# Pumps

## MYERS FORCE AND LIFT PUMPS FOR DEEP AND SHALLOW WELLS

### CONSTRUCTION AND DURABILITY

The material used in the construction of the Myers Pump is the best that can be bought for the purpose. The stand is made of the best cast iron and steel. The cylinders are seamless drawn brass or brass lined iron; the latter is always recommended where it can be used, as it combines wearing quality and strength. The valve seat is of glass, which is positively non-corrosive and will not harden the leather, a feature belonging absolutely to the Myers Pump, and without which no pump can be perfect. The check valve is of the poppet style, which rises

clear of the seat at each stroke of the pump, allowing it to clear itself perfectly; the old style hinge valve is out of date. Buckets and valves are made from the best oak tanned leather, all cut to an exact thickness and pressed dry by means of our patented process. The reason a great many pumps do not give satisfaction is because the manufacturers use cheap leather of an uneven thickness.

There is no reason why a pump will not give satisfaction and last for years if constructed as above.



NOTE CONSTRUCTION OF CYLINDER

### WARRANTY

All Myers' Pumps are warranted to be made of first-class material and free from flaws, and when properly set and operated to give satisfaction to any reasonable person.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

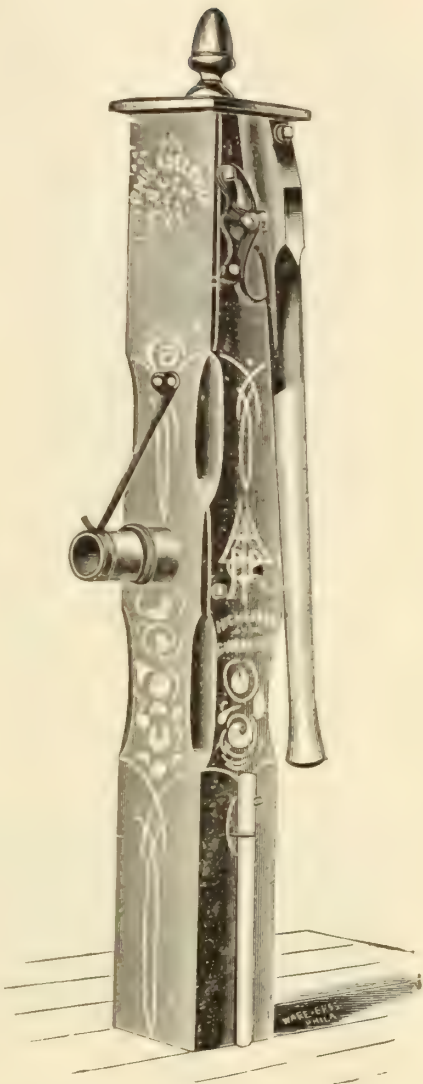
PUMPS—Continued

PUMPS

WOOD PUMPS

We sell the Buckeye, which is conceded to be the best on the market. Made of spruce wood and not poplar, as many of the so-called spruce and cucumber wood pumps are made. All Pumps porcelain lined.

Depth of Well	Size of Hood	
	6 x 6 in.	7 x 7 in.
20 feet	\$6.00	\$ 7.25
22 feet	6.25	7.50
24 feet	6.75	8.00
26 feet	7.00	8.25
28 feet	7.25	8.50
30 feet	7.50	9.25
32 feet	8.75	10.50
34 feet		10.75
36 feet		12.50
38 feet		12.75
40 feet		13.75
42 feet		15.50
44 feet		17.50
46 feet		20.00
48 feet		22.25



SINGLE ACTING WINDMILL PUMPS

This Myers Pump represents our most popular medium capacity pump for ordinary farm or house use, to be used in connection with windmill or gasoline engine or other suitable power. It combines all the features required in a reliable

3-way cock pump in a neat design. It is made almost entirely of wrought iron, steel, and malleable. It is the easiest pump on the market to set, being light to handle and simple in construction.

Head Complete, with 3 x 14 inch brass-lined cylinder, \$16.00

Tubing and Miscellaneous Pump Parts

- 4 x 4 inches, 12 feet long and under, per foot, 14c.
- 4 x 4 inches, 12 feet long or over, per foot, 15c.
- 6 x 6 inches, extension tubing, per foot, 40c.
- 6 x 6 inches, 3 feet long, porcelain lined, \$3.00.
- 6 x 6 inches, coupling and bands for 4 x 4 inch tubing, 35c.

- Buckets, 3 1/2-inch, each, 60c.
- Buckets, 4 inch, each, 70c.
- Buckets, 3-inch, each, 50c
- Handles, any size, 25c.
- Handle links, each, 25c.
- Check valves, each, 10c.
- Iron spouts, each, 30c.
- Splice straps, per pair 20c
- Sucker rod, per ft., 3c.
- Handle brackets, each 30c

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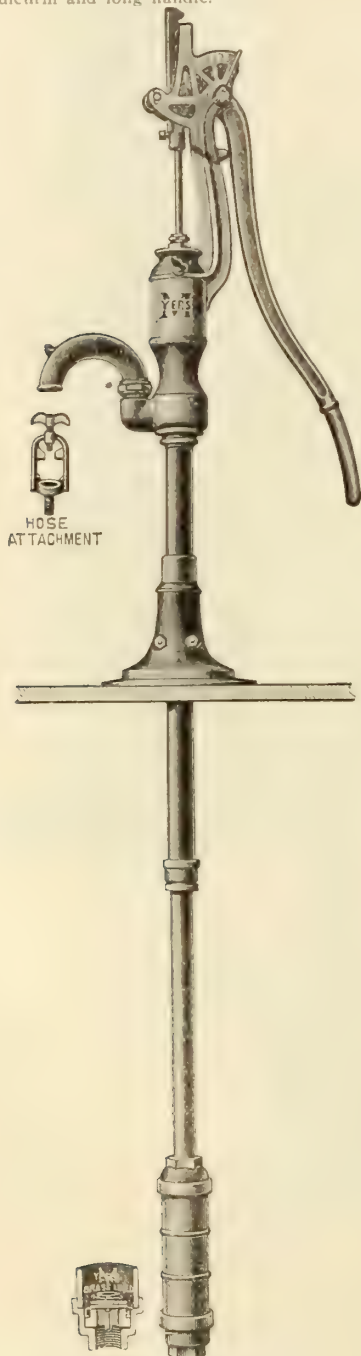


## PUMPS—Continued

THE MYERS HATCHET HANDLE  
FORCE AND LIFT PUMP

With Adjustable Base and Wrought Steel Handle  
Has Patent Glass Valve Seat and Poppet Valve

Fig. 1108 below, represents our new Lift Pump with cog gear or ratchet handle. This style handle is especially adapted to deep well work, owing to the advantage of the superior leverage, with short fulcrum and long handle.



The distance from the bolt under the handle to the piston-rod is 3 inches, with an 8-inch stroke, as against  $5\frac{1}{2}$  inches on the ordinary pump with 6-inch stroke.

## PRICE LIST, Represented by Fig. 1108

Fitted with Brass-Lined Cylinders and Glass  
Valve Seat—Four-Foot Set Length

No. R152.—Capacity, 440 gallons per hour. Has a 3-inch cylinder, tapped for cylinder.  $1\frac{1}{4}$ -inch pipe.

Price for No. 152 Lift.....\$8.00

Price for No. 172 Force.....9.00

THE MYERS BRANCH PIPE FORCE  
PUMP

## A Favorite and Reliable Anti-Freezing Force Pump

The pump is equipped with our improved glass valve seat, patent expansive plunger bucket and adjustable base plate. The air chamber is much larger than in any other pump, causing it to throw the most even flow of water from the spout and making it a superior pump for throwing water with hose. The large air chamber cushions the stream so perfectly that this pump has become a great favorite with our dealers.

Brass-lined cylinders; each pump furnished with hose attachment and strainer. With patent adjustable base and union spout. For wells from 10 to 70 feet deep. Will go in a  $5\frac{1}{8}$ -inch cased well.

No. R14 (Ratchet Head).....\$14.00

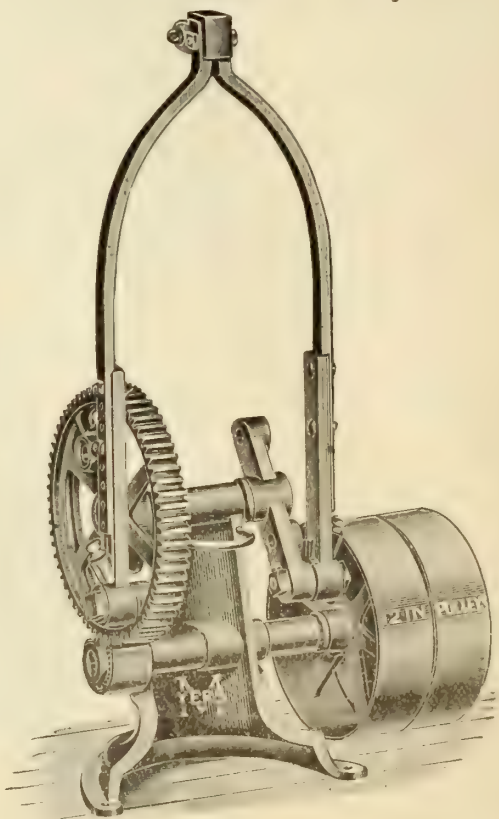
For windmill head, add to list, 75c.

For three-way cock, add to list, \$2.50.

Myers' special steel sucker rod, per foot, 4c.

Price of pipe,  $1\frac{1}{4}$  inch galvanized in and outside, fitted complete for any depth well, 12c. per foot. We have a special pump man, who will attend to your wants and guarantee his work.

## THE UNIVERSAL PUMP-JACK



The Myers' Universal Pump Jack is designed to be used in connection with any ordinary windmill head pump without disarranging the pump or pipes in any manner. It is bolted to the floor and clamped to the pump base, making a most substantial job. We recommend this as being the strongest and most complete device of its kind. Price, \$12.00.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

PUMPS—Continued

The Myers Heavy Submerged Cylinder  
Double-Action Deep Well Pump

Brass and Brass-Lined Cylinders, with Wheeler Head, and Six,  
Eight and Ten-inch Stroke. Fitted with Glass Valve Seat,  
Brass Sand Plunger, Etc.

Our No. 24 is specially constructed for wells of small diam-  
eter. The upper cylinder in which the plunger operates is seam-  
less drawn brass. The lower cylinder is placed near the bottom  
of the well. By this arrangement, the working parts of the  
pump are always covered with water, which keeps them in good  
working order. It is a straight barreled pump, so constructed  
that it will go in wells of small diameter.

Will go in 4 1/4-inch and Larger Drilled Wells.  
Capacity, 1,000 gals. per hour.

No. 24 has a 3 1/2-inch brass-lined lower cylinder, capped out-  
side, tapped for 1 1/2-inch pipe.  
Price, fitted with 3-way cocks and wind or engine head....\$16.00

CLOSED TOP PITCHER SPOUT PUMP  
WITH POLISHED CYLINDERS



No. 2, diameter of cylinder, 3 inches.....\$1.50  
No. 3, diameter of cylinder, 3 1/2 inches..... 1.75  
Drive Well Points, 1 1/4-inch galvanized, 24 inches long, \$1.50.

THE MYERS BULLDOZER POWER  
PUMP

With or Without Air Compressor

This pump is specially adapted for pumping against high pres-  
sure for use in connection with a pneumatic system or high  
gravity tank or for forcing long distances.

The cylinder is formed by the main body of the pump which  
is carefully bored and lined with heavy seamless drawn brass  
tubing. The gears are double, thereby reducing side strains,  
and are machined, insuring smooth-running. These pumps are  
made in three sizes:

2 1/2 x 5 inch cylinder, 650 gallons capacity per hour.....\$40.00  
3 x 5 inch cylinder, 900 gallons capacity per hour..... 40.00  
5 x 5 inch cylinder, 2,000 gallons capacity per hour .... 55.00  
Add for Air Compressor, \$12.50.

MYERS COG GEAR LOW-DOWN FORCE  
TANK PUMP

Something Entirely New

Capacity, 2,000 gallons per hour.

These pumps are used for irrigating, filling tanks, watering  
lawns, and many other purposes.

No. R470 has ratchet handle, with hose nipple; hose attach-  
ment and strainer.

Price ..... \$8.00  
27 feet 2-inch Spiral Wire Suction Hose, Price, \$10.00.

TANKS

Round Steel Galvanized Storage Tanks

Made of the best material, heavily galvanized to withstand the  
ravages of the weather.



1,300 gallons capacity.....\$25.00  
1,700 gallons capacity..... 33.00  
1,860 gallons capacity..... 40.00

Prices for larger sizes on application.

ROUND END STEEL GALVANIZED  
HOUSE TANKS

Made of same material as above.

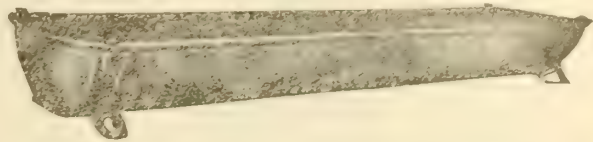


200 gallons capacity.....\$10.00  
300 gallons capacity..... 12.00  
425 gallons capacity..... 15.00

Prices on larger sizes on application.

RIVETLESS STOCK TROUGH

The only steel trough constructed without the use of rivets.  
Will not crack or burst on account of freezing. This trough is  
made of No. 12 gauge steel, curved in semi-circular form, with  
ends of cast iron fitted in each end of steel and held in place  
by steel bands instead of rivets. These bands are shrunk around  
the end edges of steel, binding it firmly to the flange on the  
end, thereby making a perfectly watertight joint.



6 feet long .....\$6.75  
8 feet long..... 9.00

PRICES SUBJECT TO CHANGE WITHOUT NOTICE



# Gasoline Engines

I. H. C

## VICTOR AND FAMOUS GAS AND GASOLINE ENGINES

Operated with Gasoline, Natural, Manufactured, or Producer Gas, Kerosene or Alcohol

Vertical and Horizontal Types Stationary and Portable. Water-Cooled and Air-Cooled 1 to 20 Horsepower.  
GASOLINE TRACTORS  
12 to 45 Horsepower

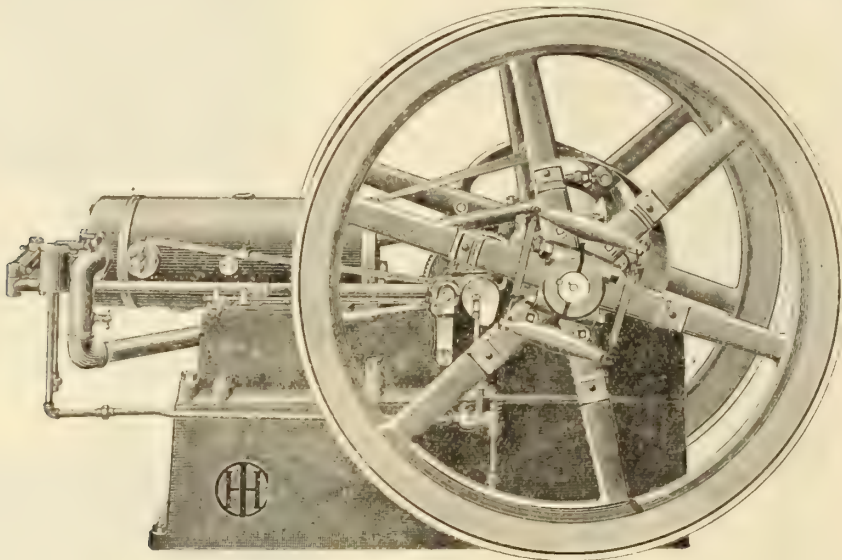
Sawing, Spraying, Hoisting, and Pumping Outfits  
The Gasoline Engine as a Farm Power.

The gasoline engine is the most efficient and economical farm power. With a little intelligent attention it will always do its duty and save money for the man who has work for it to do. It is absolutely safe, independent of weather conditions, occupies a small space, and makes possible a centrally located farm power house. Owing to the superiority over other forms of

power, a large number of farmers throughout the country have already purchased gasoline engines, but the larger number of possible purchasers is still to be supplied.

### Construction

Before any material can be used in I. H. C. engines it must be carefully tested (sometimes chemically analyzed) and every piece found to be defective is promptly rejected. Every part which enters into the makeup of one of these engines is inspected a number of times during the process of construction, and the completed engine must undergo an actual running test ranging from 10 to 12 hours. So rigid is the system of inspection that it is practically impossible for an imperfect engine to get into the salesroom.



Working side of I. H. C. Victor Horizontal Engine

The I. H. C. Victor horizontal engine is especially designed for general farm work—threshing, pumping, sawing, cutting feed, and other purposes; for use in grain elevators, grist and feed mills, hoisting plants; for pumping stations and irrigating; for shop use and all other ordinary purposes to which an engine of its size is adapted.

This engine can be used anywhere in the city or in the country. It is equipped with electric ignition so that it is never

necessary to have an open flame near the engine, which would prevent its use in insured buildings.

As regularly furnished, this horizontal engine is equipped for using gasoline. With slight alterations, however, natural or artificial gas, alcohol or kerosene may be used as fuel.

Can be furnished in 4, 6, 8, 10, 12, 15, 20 and 25 horsepower. Complete specifications and prices given upon application.

Ask for catalogue.

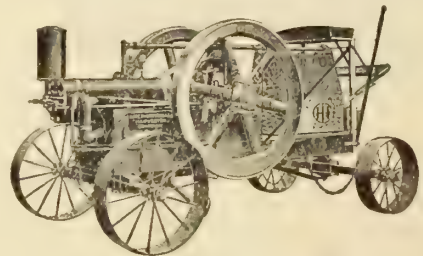
## INTERNATIONAL HARVESTER COMPANY PORTABLE GASOLINE ENGINES

4, 6, 8, 10, 12, 15 AND 20 HORSEPOWER

These portable engines have been designed to supply the demand for a reliable engine that could be easily transported from place to place. For running huskers and shredders, threshers, shellers, for pumping and other farm purposes these engines are unexcelled. They are also ideal contractors' outfits for well drilling and stone crushing, pumping water out of sewers and lowlands, for operating temporary electric lighting plants, etc. The engine proper is in all respects similar to the Victor horizontal engine described on previous pages, except that it is mounted on trucks for convenience in transporting.

The trucks are light, yet very strong, and are rigid enough to withstand any jarring or jolting encountered in traveling over rough roads or uneven fields. With the exception of the hubs, which are cast, the wheels are constructed of steel. Each axle is a solid piece of steel, turned to size at the end

to form a bearing for the wheel. The frame which supports the engine is substantially constructed and will stand up under all conditions.



Working Side of Portable Engine

Complete specifications and prices will be given on application. Ask for special catalogue.

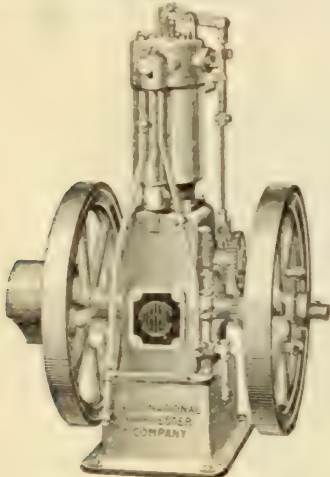
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GASOLINE ENGINES— Continued

I H C VICTOR VERTICAL GASOLINE ENGINES

2 and 3 HORSEPOWER

Victor one-cylinder vertical gasoline engines are made in 2 and 3 horsepower sizes. They are regularly equipped for using gasoline, but with slight alterations alcohol, kerosene or artificial gas may be used. These little engines are giving excellent satisfaction where a small power will answer. Every detail in their construction receives just as much careful attention as is given to the construction of the larger engines.



Victor 2-Horsepower Vertical Gasoline Engine.

- 2 Horsepower, mounted on skids.....\$100.00
- 3 Horsepower, mounted on skids..... 140.00

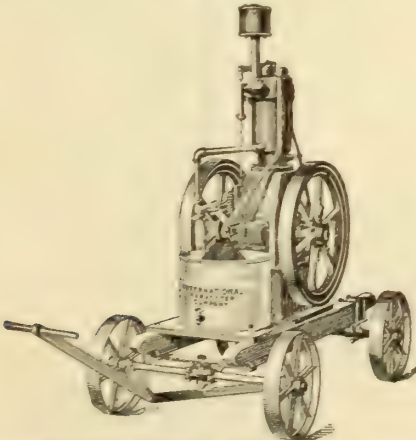
FAMOUS ONE HORSEPOWER HOPPER COOLED ENGINE

This engine is mounted on substantial wood base and is made with all the good features of the larger engine and is especially recommended for running pumps, churns, cream separators, etc., for milking, washing machines, and other small work.

- Price, complete Engine, ready to run.....\$55.00
- Price, complete Engine and Pump Jack .....\$65.00

HAND TRUCK FOR FAMOUS VERTICAL ENGINES

It is very frequently happens that a purchaser of a small Famous vertical engine can make this engine serve his purpose to a better advantage by having it in a convenient, portable shape. For this reason the hand truck shown in the accompanying illustration has been provided. It is strong and yet not unduly heavy.



- Famous 2-Horsepower Engine Mounted on a Hand Truck.
- Price for Truck .....\$ 15.00
- Price for Truck and Engine..... 155.00

FAMOUS PORTABLE SAWING OUTFITS

MOUNTED ON STEEL TRUCKS

Famous steel truck sawing outfits are made in two styles—tilting table and sliding table—and in the following sizes: 3, 4, 6, 8 and 10 horsepower.

The 3-horsepower outfit includes a vertical engine, while the 6, 8 and 10 horsepower outfits include a horizontal engine.



TILTING TABLE SAWING OUTFITS

This outfit includes the engine and accessories with a tilting table saw frame mounted on a substantial steel truck. The truck is the same for all three sizes of outfits—3, 4 and 6 horsepower.

The saw is rightly mounted and well braced, so that it is practically as steady as if anchored to the ground. The safety of the operator is provided for by a steel guard over the saw.

Tilting table outfits are specially adapted for sawing cord wood. They may be easily transported to any desired location, and when the sawing is done may be quickly moved to another location.

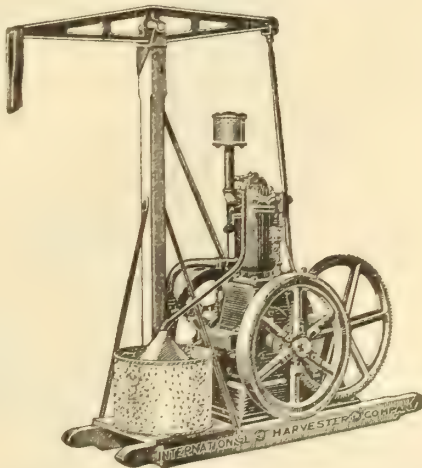
Ask for Special Catalogue and prices.

FAMOUS PUMPING ENGINE

2 HORSEPOWER

The Famous pumping outfit is very desirable because it may be used for other purposes, aside from pumping, to which an engine of its limited horsepower is adapted. When used for purposes other than pumping it is only necessary to detach the walking beam from the pump, and belt from the pulley on the flywheel to the machine. Inasmuch as the outfit is mounted on skids it may be easily transported from place to place.

Ask for Special Catalogue and prices.



- Famous 2-Horsepower Pumping Engine, with pump jack.
- Price complete as shown.....\$115.00

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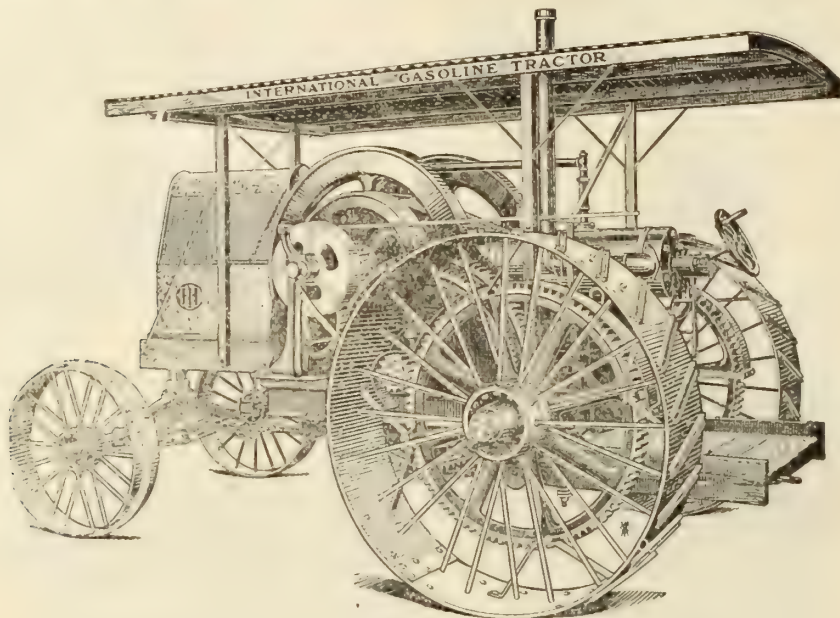


## GASOLINE ENGINES—Continued

### INTERNATIONAL KEROSENE-GASOLINE TRACTORS

Gasoline engine power is conceded to be the most practical and up-to-date farm power, not only for stationary and portable purposes, but also for traction purposes. International tractors are immensely practical. For delivering power from the belt to

operate threshers, shellers, shredders and other machines, or for hauling heavy loads and plowing, these tractors are admittedly the most successful.



The International Gasoline tractor is more desirable in many respects than a steam tractor—more efficient, economical, and convenient. It operates without smoke, steam, sparks and soot blowing—without the expense of men and a team to haul water and coal and without loss of time raising steam. It is not necessary to get up at four in the morning to build the fire, nor travel four or five miles to avoid bridges over which it would not be safe to take the steam engine. The outfit can be operated without a special licensed engineer, for there is no danger of a boiler explosion.

I. H. C. Tractors are built in five sizes. Single cylinder, 12, 15, 20, and 25 Horsepower. Twin cylinder, 45 Horsepower.

Ask for Special Catalogue and prices.

### TRACTOR GANG PLOWS

We also sell the famous Moline one-man Tractor Plow with 3, 4 or 5 bottoms made especially for the I. H. C. Tractor.

### HAND-POWER HORSE CLIPPING AND SHEEP SHEARING MACHINES

Progressive, Up-to-date Farmers and Horse Owners Everywhere Recognize the Advantages of Clipping Horses

STEWART No. 1 ENCLOSED TYPE CLIPPING MACHINE  
The Only Ball-Bearing Clipping Machine



It is without exception, the most perfect clipping machine ever made. It runs practically without friction or wear.

A slow turning of the handle is transformed by the ingenious mechanism of the gears to a tremendous speed in the knife.

It turns so easily that it is mere play to run it. The entire machine is sturdy, compact and perfect in every detail of material and workmanship.

The price puts it within reach of every farmer and horse owner.

The gearing is all enclosed in a dust and dirt proof case and runs in oil constantly.

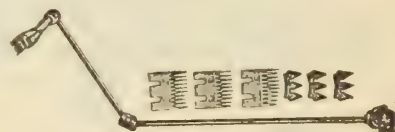
Price complete, for horses ..... \$7.50

### SHEEP SHEARING ATTACHMENT

We can furnish a sheep shearing attachment for this machine. The attachment consists of the solid jointed shearing shaft, shearing handle, four combs and four cutters. Price of



the attachment is \$7.75, or \$15.25 for the combined machine. The combined machine is the most practical for the man who has both horses and sheep.



Knife grinder attachment, \$3.50. Simple to attach. Grind your own knives. We also grind knives for the above machine, 50c. per pair.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

# Harness and Accessories

## “WOOLF’S SPECIAL”

### STUDEBAKER EXTRA HEAVY DOUBLE TEAM HARNESS

Made of the best quality oak-tanned leather, country finish. Bridles  $\frac{3}{4}$  inches, with regular side-checks. Flexible harness leather pads. Folded girths and collar martingale. Hames, best quality wood, heavily iron-bound, with breast chains. Traces, 2 inches, three rows of stitching, galvanized chains and hooks and swivels. Breeching, 3 inches double and stitched with wave

layer, split hip straps, padded rump pads, side backers. Mountings of X C metal.

Price complete, with best handsome Scotch collars, hair-faced and thong sewed, lines extra long,  $1\frac{1}{2}$  inches wide, with choice of regular Washington team bridles or good bridles with patent-leather cup blinds, and breast chains. \$45.00.



Our “Coon Special” harness is specially designed for those wanting a harness slightly lighter in weight than the Studebaker Extra Heavy Harness. The quality and general makeup of this harness is the same as that of the above harness and is equally as good value.

Price complete, with handsome Scotch collars, hair-faced and thong sewed, lines extra heavy,  $1\frac{1}{2}$  inch wide, with choice of regular Washington team bridles or good bridles with patent-leather cup blind, and breast chains, \$40.00.

We carry in stock all grades of double work harness suitable for city or country use.

### SINGLE HARNESS

This harness is made of first-class stock, well stitched throughout, with wood hames well ironed; bridle,  $\frac{3}{4}$  inch; traces,  $1\frac{1}{2}$  inch; 5-inch saddle; suitable for one-horse farm wagon.

Price complete .....\$19.00

### SINGLE EXPRESS HARNESS

Extra heavy brass trimmings; bridle,  $\frac{3}{4}$  inch; traces,  $1\frac{1}{2}$  inch, extra heavy; 4-inch saddle; made of best quality material, well constructed throughout.

Price complete.....\$27.00

### SINGLE EXPRESS HARNESS

#### SPECIAL VALUE

This is an unusually strong and well-made harness for heavy work. Extra heavy trimmings,  $1\frac{1}{4}$  inch traces, and all other parts made extra strong to withstand heavy work.

Price complete .....\$35.00

### DUMP CART HARNESS

A most excellent harness for use in connection with dump carts. It is well made of best grade material, strong and durable.

Price for saddle and breeching .....\$13.50

### COMPLETE PLOW HARNESS

Our plow harness is of splendid grade and will give excellent service for the price asked.

Price complete, for one horse.....\$5.00

### BUGGY HARNESS

Single Buggy Harness.—Bridle,  $\frac{5}{8}$  inch; traces,  $1\frac{1}{2}$  inches; saddle, 3 inches; breast collar and breeching, folded, with straight lay; flat lines; X C mounting, with nicked hook and terrets; imitation hand stitched.

Price, with breast collar.....\$13.00

Hand-Made Single Buggy Harness.—Bridle,  $\frac{5}{8}$  inch; traces,  $1\frac{1}{4}$  inches; saddle, 3 inches, hand laced, leather lined; breast collar,  $2\frac{7}{8}$  inches, V-shape, with  $1\frac{1}{4}$  inch single leather trace attached; breeching,  $1\frac{1}{2}$  inch single leather; flat lines; full nickel or imitation rubber mounting; hand stitched.

Price, with collar and hames, \$21.00; with breast collar, \$20.00

Double Buggy Harness from \$20.00 to \$30.00.

We are in position to furnish everything good in the harness line at the lowest prices.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE



HARNESS—Continued

HORSE COLLARS



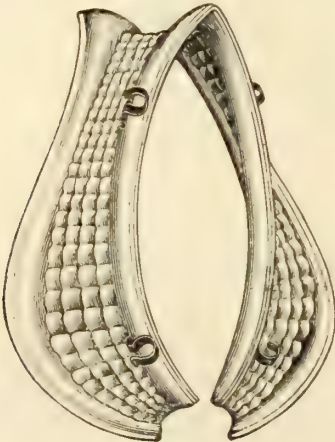
Draft.—Split leather rim and back; blacked tick face; patent fasteners, \$1.50.

No. 155—Scotch.—Kip rim and back; extra lined tick face, all hand sewed, with thong; patent fasteners, \$2.75.

Draft.—Hand made, hair faced, thong sewed, extra heavy; all leather; draft collar, \$3.00.

Concord.—Kangaroo leather; wool faced; thong sewed; patent fasteners, \$4.00.

PADS



Red Edge Collar Pad..... 30c.  
Old Gold..... 30c.

Ask for price by the dozen.

EXPRESS SADDLE PADS

Gray felt, 4 inches.....	25c.
Gray felt, 5 inches.....	30c.
Gray felt, 6 inches.....	30c.
Gray felt, 7 inches.....	35c.
Gray felt, 8 inches.....	40c.

BUGGY HARNESS SADDLE PADS

From 20 to 50 cents each.

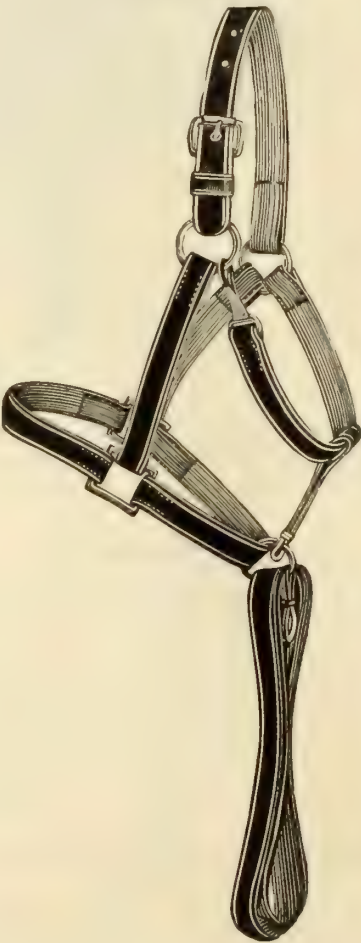
TOP COLLAR PADS

Felt .....	15c.
Zinc .....	40 and 50c.
Leather .....	40c.

Sheet felt for Riding Saddles and Cart Saddle Pads. Size, 20 x 36. Price \$1.00 per sheet.

Breast Collar Pads for Buggy Harness; felt. Price, 50c. each.

HALTERS



Leather Halter, 5 rings, made of fair leather, riveted.....	\$ .85
Leather Halter, 5 rings, made of fair leather, sewer.....	1.00
Leather Halter, 5 rings, made of black leather, riveted.....	1.00
Leather Halter, 5 rings, made of black leather, sewed.....	1.10
Leather Halters, 5 rings, hand sewed, No. 1 leather, with wide strap.....	2.00
Web Halters.....	.25
Rope Halters.....	.10
Rope Hitches.....	.10

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

## HARNESS—Continued

## HAMES

No. 21 Concord Hames, very heavily ironed, with hook or clip; brass ball top. Price per pair, \$1.25.



No. 61—Virginia Cart Hames

Root Hames are made of iron, and are the best for use in harness. They are made in various sizes, and are sold by the pair. Price per pair, \$1.25.

## ROOT HAMES

## BACK BANDS

Folded Duck, Elbel's patent hook, 46 and 48 inches long, 5 inches wide. Price, 50c.

Krake's Padded Back Band, 46 inches long, 4 inches wide. Price, 50c.

Single web back band, 25c.

Back band webbing, 4 inches wide, per foot, 4c.

A full line of Whips and a general line of Harness accessories always in stock.

## STORM HORSE COVERS

All covers have large hame leathers; line rings riveted on hame leathers; snap and rings at trace; strap and buckles at breast; line pocket at saddle, and can be used for double or single team. Four sizes: 5 feet and 5 feet 6 inches.

Black oiled shooting, to hook ..... \$2.00

Black oiled shooting, to hook ..... 2.25

Brown duck, waterproofed, to hook ..... 2.75

Brown duck, waterproofed, to hook ..... 3.00

## RUBBER BLANKET APRONS

This is a combination rain apron and Blanket Robe. The outside is Melodian Rubber Cloth and the inside is a heavy blanket lining and strictly waterproof.

Oiled Storm Fronts for Buggies, \$1.50.

48 x 56 inches ..... \$2.50

Drill Storm Fronts for Wagons, 48 x 56. Price, \$1.50.

## STORM COATS

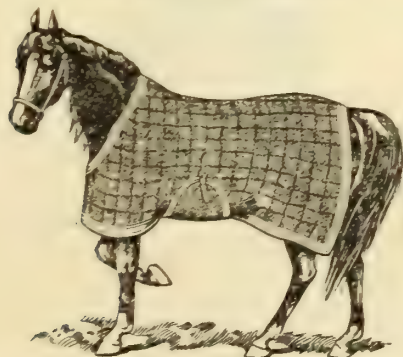
Terrapin Brand; full height for motormen, etc.; made in sizes Nos. 2, 1, 0, 00. Price, \$2.75.

Slicker Coats; yellow oiled duck. Price, \$1.50.

Slicker Pants; yellow oiled duck. Price, \$1.50 or \$2.50 per suit.

Oiled Drill Storm-Proof Hats, 50c. each.

## HORSE BLANKETS



Shaped blankets, ranging in price from \$1.25 to \$5.00.

Square blankets, ranging in price from \$1.00 to \$6.00.

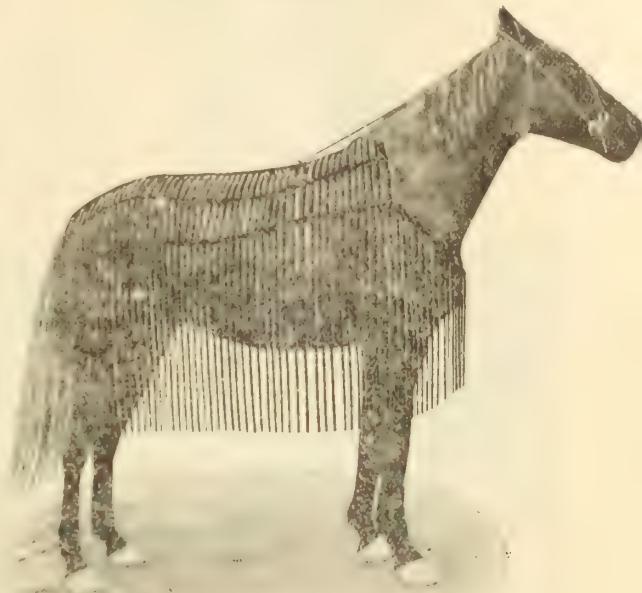
## PLUSH ROBES

Chase Newton, black or brown, size 48 x 60 ..... \$7.50

Chase Plush Robe, size 48 x 60 ..... 4.00

Plush pieced robe, size 48 x 60 ..... 3.50

## FLY NETS



Yellow cord, extra heavy, 5 bars and 50 lashes ..... \$1.50

Black leather team nets, 5 bars and 50 lashes ..... 2.25

Black leather, extra heavy, 5 bars and long lashes ..... 3.00

Buggy nets, very fine quality, 5 bars and 60 lashes ..... 3.00

Buggy nets, very fine quality, 5 bars and 50 lashes ..... 2.50

## NOSE BAGS



Star Wood Bottom.—A good reliable bag for the money. Price, 25c.

No. 7 Bag; made of 10-ounce duck, metal eyelets; very durable. Price, 60c.

"Patent Overdraw."—Well made of heavy duck (no wasting of feed). Price 90c.

The Williams Patent Side Wire Bag. Price, \$1.00.

"Woolf & Co.'s No. 8 Special." This bag is especially well made of 12-ounce duck; has reinforced sides; leather ventilators, and sole leather bottom. Price, 75c.

Special prices in dozen lots.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE



## HARNESS—Continued

## NOSE BAGS—Continued



Horse weights from 10 to 40 pounds, 3c per pound.  
Rex Harness Riveter; indispensable on the farm. Price, 75c.  
Tubular rivets for same, per box, 10c.

## CURRY COMBS

No. 1400—All steel, closed back.  
8-bar Comb; a most excellent value. Price, 20c.  
Reform Curry Comb; solid steel back. Price, 25c.  
Spring steel back, spring bar flexible. Price, 25c.  
No. 100—6 steel bar, opens back. Price, 10c.

## DANDY, OR FIBRE BRUSHES

No. 56 Fibre ..... 25c  
Handy horse, leather handle ..... 25c  
Dandy steel brush, made of fine steel wire ..... 75c

## BRISTLE HORSE BRUSHES

No. 23, leather back ..... \$0.25  
No. 100, leather back ..... .60  
No. 55, leather back ..... .75  
No. 600, leather back ..... 1.00  
No. 65, leather back ..... 1.25  
No. 750, leather back ..... 1.50

## WHITEWASH BRUSH

No. 2 Famous ..... \$0.25  
No. 40, Famous ..... .35  
No. 44, Famous ..... .50  
No. 2, Popular ..... .75  
No. 3, Popular ..... 1.00  
No. 2, Leader ..... 1.50  
No. 3, Leader ..... 1.75  
Horse Muzzle. Made of galvanized steel wire. Price, 5c.  
Heavy Steel Wire galvanized, 10c.

## WAGON UMBRELLAS

This cut represents our Big 6 Pattern Wagon Umbrella in Dark Blue. Spreads 6 feet; has six 40 inch heavy steel tempered ribs. Pole 1½ inch; selected hardwood, equipped with patent malleable fixtures for wagons.



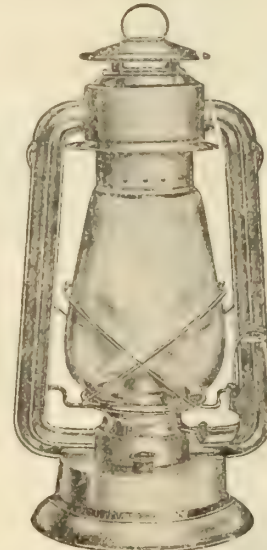
Blue, plain ..... \$1.50  
With advertisement ..... 1.00

Can be furnished in other colors.

## LANTERNS



Deitz Victor Tubular Lantern, No. 1 ..... \$0.50  
Deitz Victor Tubular Lantern, No. 1 ..... .60  
Deitz Blizzard Dash Lantern, No. 1 ..... .85  
Berger's Tubular, No. 1 ..... .50  
Berger's Tubular, No. 1 ..... .60  
Berger's Dash, No. 1 ..... .75  
Haines' Cold Blast, No. 1 ..... .75  
Haines' Cold Blast, No. 2 ..... .90  
Haines' Dash, No. 2 ..... 1.25



Regulation Driving Lamp, conforms with District of Columbia requirement ..... \$1.25

## HORSE SHOES AND BLACKSMITH TOOLS

Standard, no better made. Prices on application.

New Anchor Nails, 5 pound box ..... \$0.69  
Russell's Nails, 5 pound box ..... .65  
Pincers, 12-inch regular steel ..... .65  
Pincers, 14-inch "Heller Bros." ..... 1.25  
Pincers, 16-inch "Heller Bros." ..... 1.50  
Hammers, "Heller Bros." steel, 12-ounce ..... .75  
Hammers, "Heller Bros." steel, 17-ounce ..... .75  
Rasps, "Heller Bros." 14-inch ..... .50  
Rasps, "Heller Bros." 16-inch ..... .65  
Knives, L. X. L., imported ..... .50  
Knives, "Heller Bros." ..... .50

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Fencing

"Pittsburg Perfect"

ELECTRICALLY WELDED FENCES

are enjoying phenomenal success, and are conceded to be far superior to any other fences on the market. Thousands of pleased fence users will testify that "Pittsburg Perfect" Electrically Welded Fences—

- Will stand ordinary as well as hard usage.
- Will not sag in summer's heat nor break in the cold of winter.
- Are made of the best material for fencing purposes. (Basic Open-Hearth Wire.)
- Have stays that will not slip, nor can they be moved out of place.
- Will conform to the most uneven ground and can be erected over hills and through valleys as well as on level ground.
- Have no slack wire to spoil the appearance as well as the efficiency.
- Do not require an expert to erect.
- Are low in price.
- Made with stay wires as large as the line wires.
- Ask for special catalogue.

BARBED WIRE—FULLY GALVANIZED

- Cattle wire, two-point barbs, 6 inches apart. Price, per 100 pounds, \$3.00.
- Hog wire, four-point barbs, 3 inches apart. Price, per 100 pounds, \$3.00. Special price in quantities.
- Star Barbed Wire, two-point, made of extra grade steel, 18 feet to the pound, 80 rod spools. Price, \$3.00 per spool.
- Plain Wire, very best quality, fully galvanized:
  - Nos. 7, 8, 9, and 10.....\$3.00 per 100 lbs.
  - Nos. 11, 12, 13, and 14.....3.25 per 100 lbs.

POULTRY NETTING — GALVANIZED  
AFTER WEAVING  
No. 20 WIRE

- 1 foot, 2-inch mesh, 150 lineal feet, per roll.....\$ .70
- 2 feet, 2-inch mesh, 150 lineal feet, per roll.....1.35
- 3 feet, 2-inch mesh, 150 lineal feet, per roll.....2.00
- 4 feet, 2-inch mesh, 150 lineal feet, per roll.....2.70
- 5 feet, 2-inch mesh, 150 lineal feet, per roll.....3.35
- 6 feet, 2-inch mesh, 150 lineal feet, per roll.....4.00
- 1 foot, 1-inch mesh, 150 lineal feet, per roll.....1.65
- 1½ feet, 1-inch mesh, 150 lineal feet, per roll.....2.60
- 2 feet, 1-inch mesh, 150 lineal feet, per roll.....3.30
- 3 feet, 1-inch mesh, 150 lineal feet, per roll.....4.95
- 4 feet, 1-inch mesh, 150 lineal feet, per roll.....6.60
- Mesh Wire. Best quality; galvanized after weaving; used largely in building corn cribs to make them rat proof, and also for sieves. Width, 24 to 48 inches.
  - 2 x 2 and 3 x 3 inch mesh, per square foot.....4c.
  - 2 x 4 inch mesh, per square foot.....5c.
- Special price in large quantities.
- Baling Wire. Specially tested and annealed for baling purposes. Price, \$2.75 per 100 pounds.
- Two-Strand Twisted or Cable Wire. A standard fence wire, fully galvanized. Spools contain from 70 to 100 pounds. Price, \$3.00 per 100 pounds.

NAILS

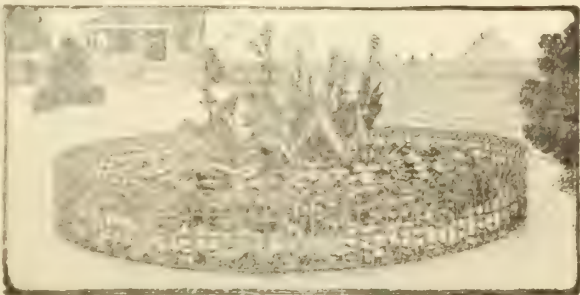
- Best quality steel wire nails. All sizes.
- Barbed roofing Nails, inch long.
- Cut Nails, all sizes.
- Wrought or Clinch Nails. Sizes, 6d, 8d, 10d, and 12d.

ROOFING TINS

Cap Nails for roofing. Does away with the use of the ordinary roofing tin.

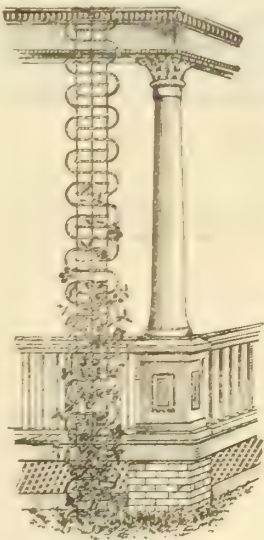
STAPLES

- For barbed wire, 1 inch and 1¼ inch.
- For ribbon wire.
- For poultry netting, ¾ inch.
- All the above at lowest market prices. It will pay you to ask us.



This cut shows our Perfection Flower Guard. Protect your flowers and plants.  
Ask for special catalogue and prices.

This cut represents our Trellis Wire. Used very extensively for training vines about verandas, windows, etc. Ask for price.



FENCE PLIERS

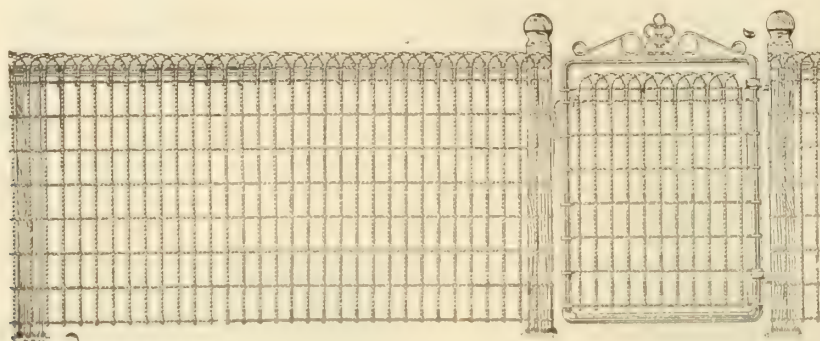
- Button's Pliers, 10 inches......75
- Fence Pliers, 12 inches.....\$1.00



## FENCING—Continued

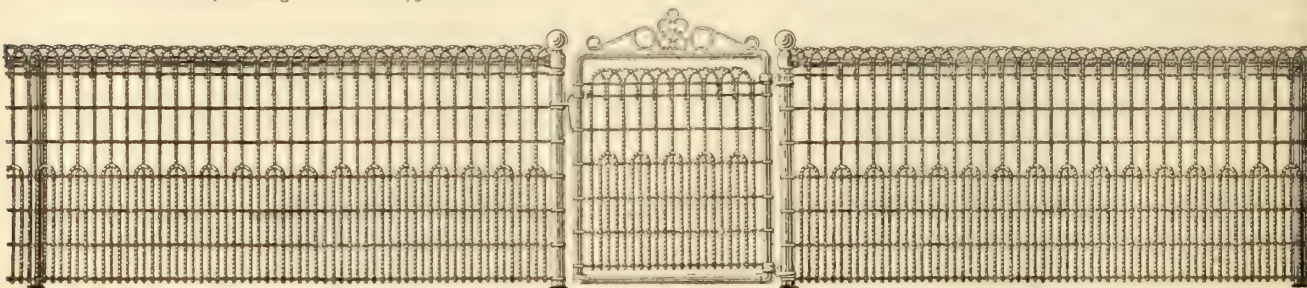
## CYCLONE FENCE

This cut represents our style "L-X" Fabric, and in the  $2\frac{1}{4}$  inch mesh is non-climbable. It goes up perfectly on any kind of wood or steel posts. Makes a beautiful fence, yet a very strong one. Can be furnished in height from 24 to 118 inches.



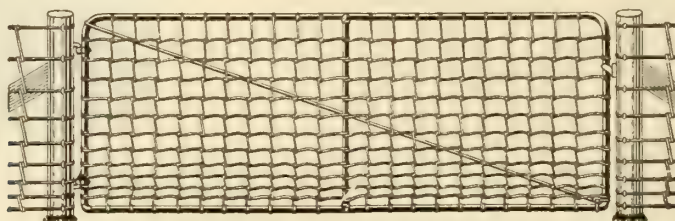
Ask for special catalogue and prices for Cyclone Fence and Gates.

This cut represents our "A-1 Fabric." This fence differs from the "L-X Fabric" in that an additional picket is woven in at the bottom, making a mesh of  $1\frac{3}{8}$  inch.



Made in heights from 24 to 59 inches.  
Ask for special catalogue and prices.

This cut represents our S.-M. single gates for the above fence. Can be furnished from 3 to 16 feet wide.



Ask for special catalogue and prices.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Miscellaneous

JUMBO COMBINATION  
Wire Stretcher and Safety Hoist



TWO PERFECT TOOLS IN ONE

A Handy and Practical Labor Saving Combination

Has two eccentric ground fitting rods and gal-  
vanized iron—ground fitted eccentrics that hold any wire—extra  
heavy chain long enough to fit the largest fence post.

For hoisting it comes in handy every day—changing wagon  
wheels—lifting stones—latching, and wherever there is lifting  
to do.

Locks automatically: heavier the load the better the grip.

Patented, adjustable lock shoe makes it safe and sure.

Last a life-time—pays for itself on the first job.

Capacity, 1,000 pounds. Roped with one-half inch pure Ma-  
nila rope.

Price

\$1.50



No. 2 Hoist, capacity 1,000, double.....	\$1.50
No. 3 Hoist, capacity 1,500, triple.....	2.25
No. 5 Hoist, capacity 2,500, double.....	2.50
No. 6 Hoist, capacity 4,000, triple.....	4.00

TACKLE BLOCKS

WOOD OR STEEL AT SAME PRICE

3-inch single .....	\$0.35
3-inch double .....	.60
4-inch single .....	.40
4-inch double .....	.75
5-inch single .....	.50
5-inch double .....	.85
6-inch single .....	.60
6-inch double .....	1.00
7-inch single .....	.65
7-inch double .....	1.25
8-inch single .....	.75
8-inch double .....	1.50
9-inch single .....	1.35
12-inch single .....	1.75
12-inch double .....	2.75

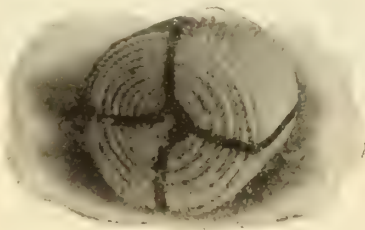
MANILA, SISAL AND COTTON ROPE

Always on hand the best Manila, Sisal and Cotton Rope, in  
coils or by the piece, at prices consistent with quality. Prices  
on application

Approximate length of Manila and Sisal Rope, per pound:  $\frac{3}{4}$   
diameter, 6 feet to pound; 13-16 diameter, 6 feet to pound;  $\frac{3}{8}$   
diameter, 4 feet 3 inches to pound.

We recommend 13-16 inch rope for hay forks.

Binder Twine. Prices on application.



FODDER YARN

Have always on hand large quantities of the above. Prices  
on application.

CUT RAW-HIDE BELT LACING

$\frac{1}{4}$ -inch, per 100 feet .....	\$1.75
$\frac{3}{8}$ -inch, per 100 feet .....	2.25
$\frac{1}{2}$ -inch, per 100 feet .....	3.00
$\frac{3}{4}$ -inch, per 100 feet .....	3.75

VEGETABLE TWINE AND CORD

- 2-ply jute, vegetable cord.
- 3-ply jute, vegetable cord.
- Flax twine.
- Flax cord.
- Tarred marlin.
- Wrapping twine, 3-ply.

NEW STYLE SUGAR KETTLES

These kettles are also known as wash kettles, and are adapted  
for many purposes, but in particular for general use on the  
farm, and are made from the very best iron. They have smooth  
surfaces, and each one is painted.

No. 3, actual capacity 15 gallons.....	\$2.50
No. 4, actual capacity 18 $\frac{1}{2}$ gallons.....	3.00
No. 5, actual capacity 21 $\frac{1}{2}$ gallons.....	3.50
No. 6, actual capacity 25 $\frac{1}{2}$ gallons.....	4.00
No. 7, actual capacity 29 $\frac{1}{2}$ gallons.....	4.75
No. 8, actual capacity 37 gallons.....	7.00

The above prices include bails.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

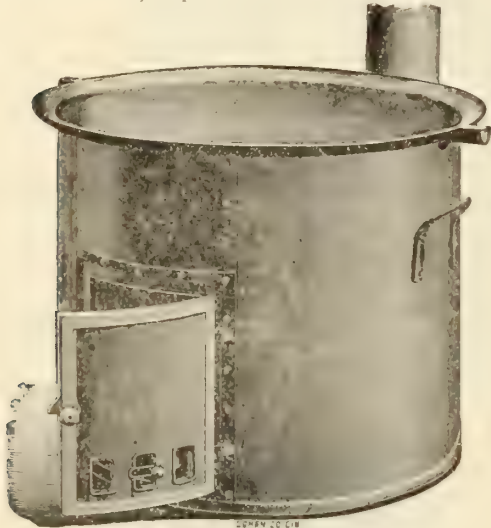


MISCELLANEOUS—Continued

Cook Your Lime and Sulphur with a  
BOILER AND FEED COOKER

Heavy cold rolled steel furnace; extra large feed door; wrought iron handles, firmly riveted on Kettles, heavy cast iron. Door, frame and fine collar cast iron. Never buckles or warps from heat; designed to set on ground or brick foundation; especially adapted for cooking feed, rendering lard, making soap, scalding hogs, poultry, etc. Cast iron flues are constructed inside this, retaining heat and economizing fuel.

Also used for lime, sulphur and salt.



33 gallon capacity .....	\$11.00
40 gallon capacity .....	12.50
53 gallon capacity .....	15.00

AXLE GREASE AND OILS

Diamond, per box .....	\$0.05
Royal, per 25-pound bucket .....	.75
Mica, per box .....	.10
Mica, per 15-pound bucket .....	1.00
Mica, per 25-pound bucket .....	1.25
Frazer's, per box .....	.10
Frazer's, per 3-pound bucket .....	.25
Castor Oil, per box .....	.10
Royal, by barrel or half barrel, prices upon application.	
Baum's Castorine, per pint .....	.25
Baum's Castorine, per quart .....	.50
Polarine Oil, 1-gallon can .....	.75
Polarine Oil, 5 gallon can .....	2.50

HARNESS AND MACHINE OILS



Pure Neatsfoot, per gallon .....	\$1.00
Commercial Neatsfoot, per gallon .....	.75
I X L Harness oil, per pint .....	.20
I X L Harness Oil, per quart .....	.35
I X L Harness Oil, per 1/2 gallon .....	.50
I X L Harness Oil, per gallon .....	.75
Miller's Harness Dressing, per pint .....	.25
Miller's Harness Dressing, per quart .....	.50
Miller's Harness Dressing, per gallon .....	.75

(Gallon prices on Miller's does not include can.)

Harness Soap, Miller's, per pound .....	.25
Harness Soap, Miller's, per 5 pounds .....	.65
Harness Soap, Miller's per 10 lbs .....	1.25
Castile Soap, pure imported, 3-pound box .....	.45

Hoof Packing, per box .....	.25
Harvester Oil, 1/2 gallon .....	.30
Harvester Oil, 1 gallon .....	.50
Harvester Oil, in bulk, per gallon .....	.40
Separator Oil, per gallon .....	.75
Gasoline Engine Oil, per gallon .....	.75

A good line of oil cans in stock.

BARREL HEADER

Improved patent steel screw .....	\$1.50
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CORN BASKETS

1 bushel, Bamboo, plain .....	\$0.50
1 1/2 bushel, Bamboo, plain .....	.60
2 bushels, Bamboo, plain .....	.75
2 1/2 bushels, Bamboo, plain .....	.90
3 bushels, Bamboo, plain .....	1.00
1 bushel, Bamboo, iron bound .....	.60
1 1/2 bushel, Bamboo, iron bound .....	.75
2 bushels, Bamboo, iron bound .....	.85
Market Baskets, 5, 10 cents.	
3/4 bushel stave baskets.	
1 bushel stave baskets.	
Prices on application.	

Berry Boxes.—1-pint size; 1-quart sific. Tills for peaches or tomatoes, etc., sizes 1, 2, 3 and 4. Prices on application.

GALVANIZED STEEL BASKETS

Corrugated, reinforced .....	\$1.00
Regular .....	.60

Special prices in dozen lots.

BROOMS

Stable, 16 inch, 6 row, Bass .....	\$0.50
Stable, 16 inch, 6 row, Rattan .....	.50
Stable, 16 inch, 6 row, Bamboo .....	.50
Stable, 16 inch, 6 row, Bamboo, with scraper .....	.65
Stable, 16 inch, 8 row, Bamboo .....	.75
Stable, 14 inch, steel .....	.75
Warehouse, extra heavy .....	.50
Warehouse, extra heavy, Rattan center .....	.60

BRUSH AND BRIAR HOOKS



No. 380—Axe Handle Bush Hook .....	\$0.75
No. 390—Two-Ring Bush Hook .....	.75
No. 393—Socket Briar, with knife on back .....	1.25

PICKS, MATTOCKS AND GRUB HOES

6 to 7, 7 to 8 and 8 to 9 lbs., Best Quality War, Steel Railroad Picks .....	\$0.60
6-lb. Best Quality War, Steel Mattocks .....	.50
4-lb. Best Refined Iron Grub Hoes (Steel Bit), each .....	.50

BUSH PULLER

A great labor saver. Do your grubbing with this tool. One man can do the work of five.



GET ONE of our patented bush pullers to do your grubbing. One man with this machine can do the work of five men. The greatest labor saver of the age.

Price .....	\$5.00
-------------	--------

BREAST CHAINS

26-inch—5-16 inch, iron, double twist, tapered, stiff, pair .....	\$1.00
27-inch—Double slack, twist, pair .....	.75
26-inch—12-2, single slack, pair .....	.50
No. 46—Cart tug chains, 18-10-1, per pair .....	.30
No. 67—Fifth Chain—Round hook, ring and swivel, black made with stretchers also if desired, 10x3/4, with reg. hook .....	2.50

## HAY KNIFE

Lightning ..... \$0.75

White Oak, handmade, unstamped.....	4.00
Crowbars, made of best tool steel, price per pound, 6 cents.	
Carried in regular, pinch, and ball tops.	

Wood, for plows, per set	\$.
Steel, for plows, per set	..
Steel, extra heavy, for plows, per set	...
Steel, extra heavy, for wagons, per set	\$

A very suitable light for picnics, camp meeting, shops, or where a strong light is needed, especially out doors. Price, \$1.25.

Shovel, long	.....	\$0.25
Shovel, "D"	.....	.25
S	.....	.25
Fork, 1½ feet	.....	.20
Fork, "D"	.....	.25
Fork, 6 feet	.....	.20
Rake and hoe	.....	.15
Axe, handmade	.....	.30
A	.....	.10
A	.....	.10
Axe, No. 3, machine	.....	.10
Pick, No. 1	.....	.20
Pick, No. 2	.....	.15
Axe, No. 3, machine	.....	.10
Hatchet and hammer handles, 5 and 10 cents each	.....	

Coal. Well made of swede iron, 32 in. x 60 in.  $\frac{1}{2}$ -inch,  $\frac{5}{8}$ -inch,  $\frac{3}{4}$ -inch,  $\frac{7}{8}$ -inch and 1-inch openings. Price, \$8.00.

Sand Sieves. 28 in. x 54 in. 3-16 inch.  $\frac{1}{4}$  inch. 5-16 inch,  
and  $\frac{3}{16}$  inch. Price, \$5.00.

A very necessary thing for binding corn, and fodder shocks.	
Smith's .....	\$1.50
"The Never Slip" .....	20

To prevent horses from jumping.

Made of hard wood .....	.40
Made of steel .....	.50

-10-2, per pair	65
-12-2, per pair	75
-14-2, per pair	90
-16-2, per pair	110

Best Heavy galvanized steel, 7½ cents per pound.

20	feet	.....	\$0.75
30	feet	.....	00
40	feet	.....	.90
50	feet	.....	1.25

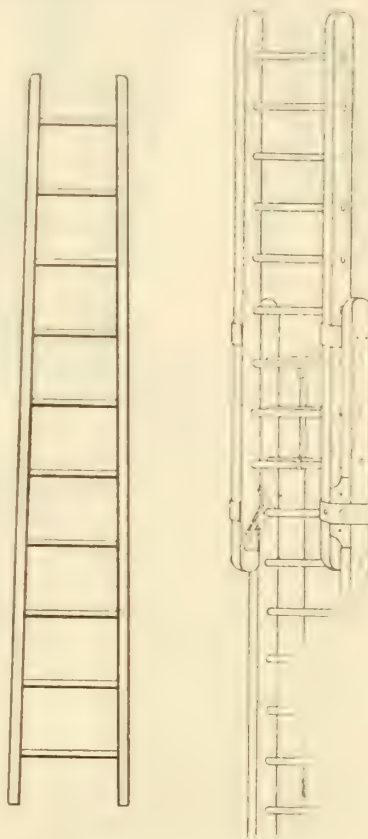
12 inch	.....	.50
14 inch	.....	.60

**Extension.**—These ladders are light, strong, and stiff, being well built of best material.

Price per foot, 20 cents.

Can furnish in 24, 28, 32, and 36 feet, extension.

Single of same material as extension.



Frederick County Handmade, of best quality steel.....	\$0.30
Eureka, blade knife, made of best material.....	.40

PRICES SUBJECT TO CHANGE WITHOUT NOTICE



MISCELLANEOUS—Continued

PARIS STEP LADDERS

This is unquestionably the best step ladder made. The price is very little, if any, higher than the common kind.



4 feet	.....	\$1.25
5 feet	.....	1.50
6 feet	.....	2.00
8 feet	.....	2.50
10 feet	.....	3.00

GEM ICE CREAM FREEZERS

This is the only double freezer of reputation made today. Freezes cream quickly. Size in quarts and prices each; 2 quarts, \$2.00; 3 quarts, \$2.25; 4 quarts, \$2.75; 6 quarts, \$3.25; 8 quarts, \$4.00; 10 quarts, \$5.00.

ICE TONGS—MADE OF WROUGHT STEEL

No. 0	.....	\$0.75
No. 1	.....	1.00

ICE PICKS

Steel, Wooden Handle, 7½ inches long	.....	\$0.10
Steel, wooden handle, with metal cap, 8¾ inches long	.....	.15

BUTCHER KNIVES

Forschner's XXXX Brand, made of special Damascus Steel. Every one warranted.

5 inches	.....	.25
5½ inches	.....	.30
6 inches	.....	.40
7 inches	.....	.50
8 inches	.....	.60
9 inches	.....	.65
10 inches	.....	.75
Forschner's 6-inch Boning Knife	.....	.35
Forschner's 6-inch Skinning Knife	.....	.35
Forschner's 7-inch Sticking Knife	.....	.35
Forschner's Sharpening Steels, 8 inches	.....	1.00
Forschner's Sharpening Steels, 10 inches	.....	1.25
Lee's Sharpening Steels, 8 inches	.....	.65
Lee's Sharpening Steels, 10 inches	.....	.75

Joseph Rogers & Sons' best imported Sheffield knives:		
6 inches	.....	.65
7 inches	.....	.75

Paring Knives, 10 and 15 cents.

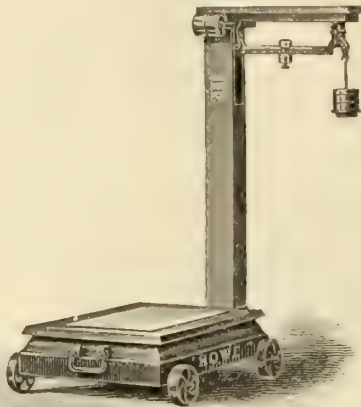
BUTCHER OR HOUSE SCALES

Forschner's No. 1001. Has 8-inch porcelain dial, glass covered, round white enamel pan, nickel-planted boxes. German silver ring. Weighs 30 pounds by ounces. Price \$6.00.  
Forschner's No. 2001. Circular spring balance, with glass sash and white front, round white enamel pan, nickel planted. Weighs 30 pounds by ounces. Price, \$4.50.  
Chattillion's No. 134E. Round metal dial, steel pan, heavily tinned, 24 pounds by ounces. Price, \$2.50.  
No. 682. Circular Spring, metal face, metal pan. Price, \$2.00.

STEELYARD, OR SCALE BEAMS

200 pounds	.....	\$1.50
250 pounds	.....	1.75
300 pounds	.....	2.00
350 pounds	.....	2.40
400 pounds	.....	2.75
500 pounds	.....	3.00

PLATFORM SCALES



We are agents for the Howe and Fairbanks Scales. Ask for prices on any size.

HAMMERS

Stone Sledges.—5 to 30 lbs. Price, 10 cents per pound.		
Napping Hammers.—2½ and 3 pounds, 15 cents per pound.		
Machinist Ball Pin Hammers:		
12 ounces	.....	\$0.75
20 ounces	.....	.85
24 ounces	.....	1.00
Riveting Hammers:		
4 ounces	.....	.40
7 ounces	.....	.45
9 ounces	.....	.50
Adz Eye Nail Hammers.		
1 pound Cast Steel	.....	.60
1 pound Blue Steel	.....	.50
1 pound Nickled Steel	.....	.90

HATCHETS

Marvel No. 2, hand forged, half hatchet	.....	.50
Beamer No. 2, hand forged, half hatchet	.....	.60
Keen Kutter, half hatchet	.....	.75
German town, half hatchet	.....	.75
Lathing Hatchet, nickled steel	.....	.75
Barrel Hatchets:		
German town, No. 285	.....	.75
Plumb's	.....	.60
Keen Kutter	.....	.75

In addition to the above, we carry in stock a large line of Bolts, Nuts, Screws, Hinges, Knob Locks, Pad Locks, Cold Chisels, PUNCHES, Cotter Keys, Squares, Monkey Wrenches, and numerous other small hardware.

STEEL TRAPS

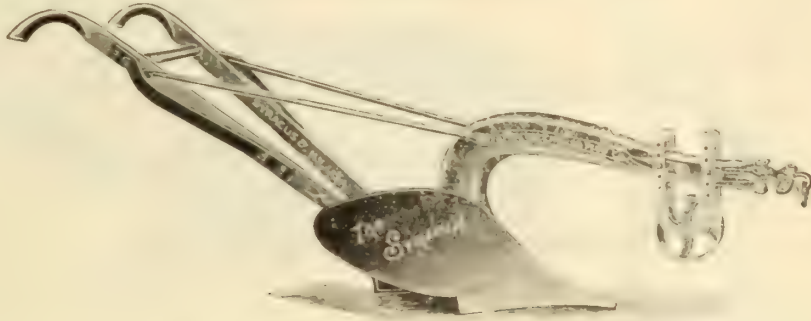
No. 0	.....	.15
No. 1	.....	.20
No. 2	.....	.25
No. 2, double spring	.....	.35

Special prices on dozen lots.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

## Contractors' Supplies

### SYRACUSE CONTRACTOR'S PLOW



No. 1, Contractor's—Two or Four Horse

Weight with wheel, 200 pounds. Price, \$15.00.

Hard iron wearing parts. Extra heavy beam, share and strip. Will turn a furrow 5 to 9 inches deep. An excellent plow for general grading purposes

### SYRACUSE PAVEMENT PLOW

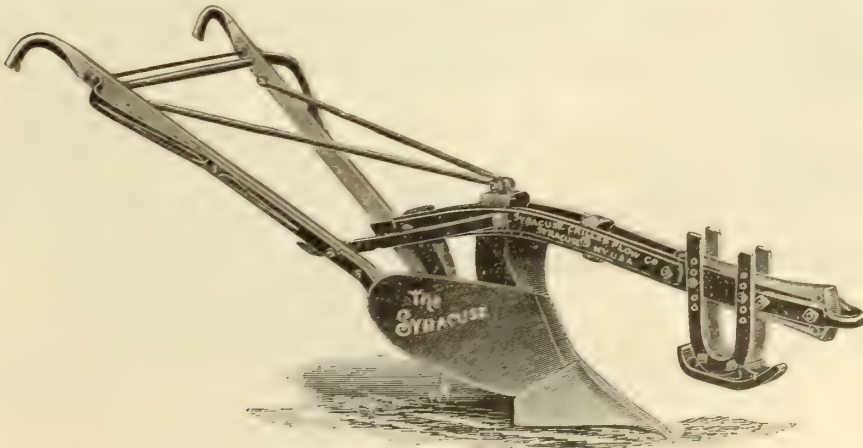


No. 98.—Four or Six Horse.

Weight, 280 pounds. Price, \$25.00.

Adjustable and double reversible crucible steel point. Strongly built throughout. Specially adapted for tearing up cobblestones of Macadam pavement.

### SYRACUSE HEAVY CONTRACTOR'S PLOW



No. 99.—Four or Eight Horse.

Weight, with shoe, 310 pounds. Price, \$35.00

Steel truss beam. Steel moldboard and landside. Separate shin piece. Heavy overlaid wrought steel share. Slight turning capacity. Suitable for severe grading purposes in shale or hard pan.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE



CONTRACTOR'S SUPPLIES—Continued  
SYRACUSE DRAG SCRAPERS

You cannot find better Scrapers at any price



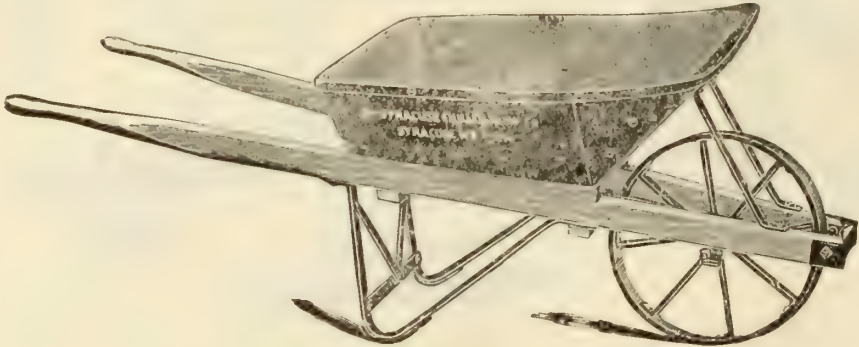
No. 3, 3 cubic feet, 85 pounds .....	\$5.50
No. 2, 5 cubic feet, 90 pounds .....	7.75
No. 1, 7 cubic feet, 98 pounds .....	6.00

Prices on wheel Drag Scrapers upon application.

Ask for prices and special catalogue on 4-wheel Warehouse Trucks.

THE PERFECT BARROW

For conveying concrete, mortar, sand, gravel, cement, dirt, asphalt, etc.



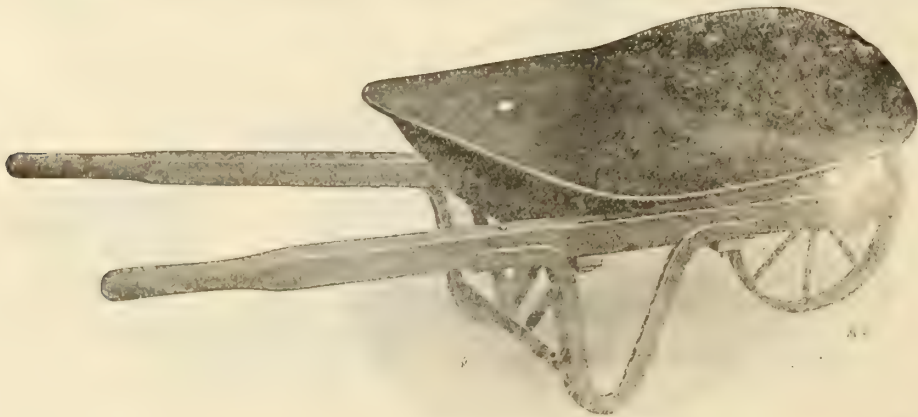
Two Sizes

No. 75-A, 4 cubic feet, 72 pounds .....	\$4.50
The best end dump barrows made.	

TUBULAR FRAME SOLID PRESSED STEEL TRAY BARROW

The top edge of all Syracuse Barrow trays is reinforced, preventing breaks or dents in dumping. All our barrows are securely braced, strong and durable. They have steel spoke wheels and legs provided with renewable iron shoes.

WOOD FRAME SOLID PRESSED STEEL TRAY BARROW WITH STEEL LEGS



As shown in cut

Price .....	\$3.50
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PRICES SUBJECT TO CHANGE WITHOUT NOTICE

## CONTRACTOR'S SUPPLIES—Continued

## COAL AND MORTAR BARROW



This is a heavy barrow, strong frame and built for large capacity. Weight 15 pounds.

Price, with wood wheel ..... \$2.00  
Price, with steel wheel ..... 2.50

## CANAL BARROWS

Wood frame and wood tray. Well bolted. Handles and legs of heavy iron.

With steel wheel ..... \$2.25  
With wood wheel ..... 2.00

## GARDEN BARROWS

This wheelbarrow is built of the best seasoned material. Frame built of hard wood. It is strong and roomy, and is adapted for the use of farmers. Painted.

No. 1 ..... \$1.00  
No. 2 ..... 4.00

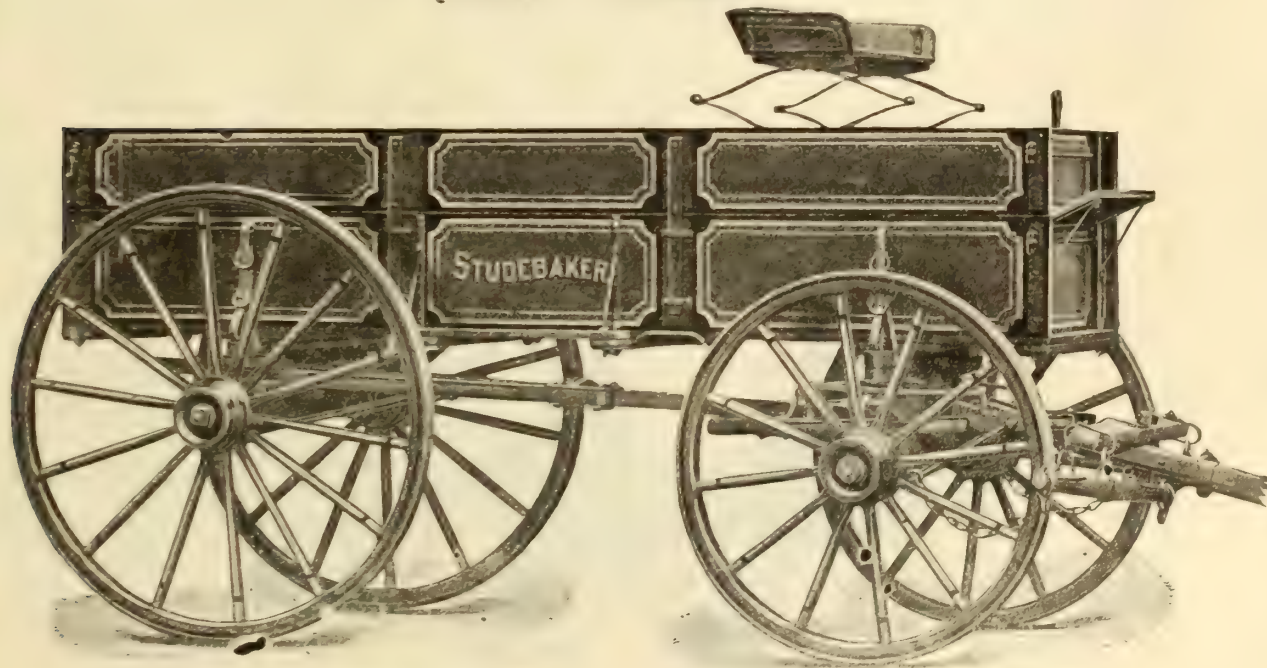


## TWO-WHEEL WAREHOUSE TRUCKS

Bag Truck, as per cut.....\$2.50  
Box Truck, No. 1..... 4.00  
Box Truck, No. 2 ..... 5.00  
Box Truck, No. 3..... 6.00  
Barrel Truck, No. 2..... 6.00  
Barrel Truck, No. 3 ..... 7.00

**Studebaker Wagons**

QUALITY SUPREME



Standard Thimble Skein Farm Wagon. Made also in Steel Axle

Every piece of material that goes into a Studebaker wagon has the Studebaker reputation behind it.

The house of Studebaker jealously guards the quality of the vehicle that bears its name.

Only the very finest material is used, and at every turn inspectors are on the lookout.

Every process of construction is under expert supervision—nothing anywhere is left to chance.

THE EASIEST RUNNING AND LONGEST WEARING WAGON MADE

PRICES SUBJECT TO CHANGE WITHOUT NOTICE



STUDEBAKER WAGONS—Continued

STANDARD THIMBLE SKEIN FARM WAGON WITH COACH TONGUE

Sizes of Skeins	Height of Wheels				Size of Tire	Dimensions of Box				Approximate		Wagon Complete with Brake	Gear only with Brake	
	Front		Hind			Lower Top		Length		Weight	Capacity			
	Inches	Ft.	In.	Ft.	In.	Inches	In.	In.	Ft.	In.	Pounds	Pounds	List Price	List Price
2¾ x 8	3	8	4	4	2 x 7-16	12	8	10	0		850	2000	\$81.00	\$64.00
2¾ x 8	3	8	4	4	2½ x 7-16	12	8	10	0		850	2000	83.00	66.50
2¾ x 8	3	8	4	4	3 x 3-8	12	8	10	0		850	2000	84.50	67.50
3 x 9	3	8	4	6	2 x 1-2	13	8	10	6		1000	3500	85.50	67.00
3 x 9	3	8	4	6	2½ x 1-2	13	8	10	6		1000	3500	89.00	70.50
3 x 9	3	8	4	6	3 x 1-2	13	8	10	6		1000	3500	91.00	72.50
3¼ x 10	3	8	4	6	2 x 5-8	14	10	10	6		1100	4000	88.50	69.00
3¼ x 10	3	8	4	6	3 x 1-2	14	10	10	6		1100	4000	93.50	74.50
3½ x 11	3	8	4	6	3 x 9-16	16	12	10	6		1250	5000	101.00	80.00

SPECIAL DISCOUNT FOR CASH

STEEL AXLE FARM WAGON

Hght. of Whl.		Size of Tire		Dimensiu of Box		Price	
in.	ft.	in.	ft.	in.	ft.	lbs.	Com.
15½ x 9	3	8	4	6	2x5-8	13 8 10 6 1000	2500 85.00
1¾ x 10	3	8	4	6	2x5-8	14 10 10 6 1150	4000 87.00
2 x 11	3	8	4	6	2x3-4	14 10 10 6 1300	5000 100.00

SPECIAL MARYLAND PATTERN LINCH PIN STEEL SKEIN GEAR WITH TRUSS RODS

3¾-inch Steel Skein Gear, 3 feet 8 inches between standards, 4x7½ tire, \$108.75. Add for rear gear brake, \$13.50; side brake, \$6.00. Special discount for cash.

Studebaker Junior

The Studebaker Junior is a substantially made miniature wagon, not a mere toy. It is one of the finest and strongest wagons of its kind in the market, and is built after the style of the regular Studebaker—oak frame, farm wagon gearing with bent hounds and adjustable reach, all parts strongly ironed and braced, welded tires, staggered spokes, hub boxes and caps, oak shafts (or pole if desired), handsomely painted. Body is 17x36, wheels 12x18 inches. The Studebaker Junior is suitable for use by the child alone or with a good sized dog, sheep or goat in the shafts.

Price, with hand tongue .....\$7.50  
Extra for shafts, \$1.00; goat pole, complete..... 2.00

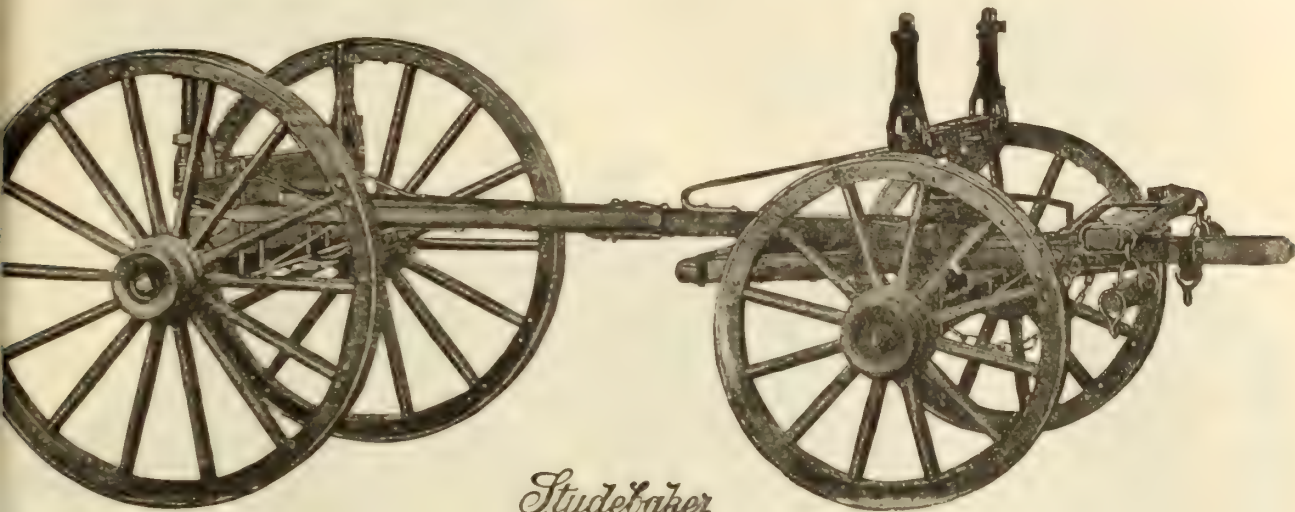
The Studebaker Junior



STUDEBAKER WAGONS—Continued

Cut-Under Teaming Gear

Coach Tongue



*Studebaker*

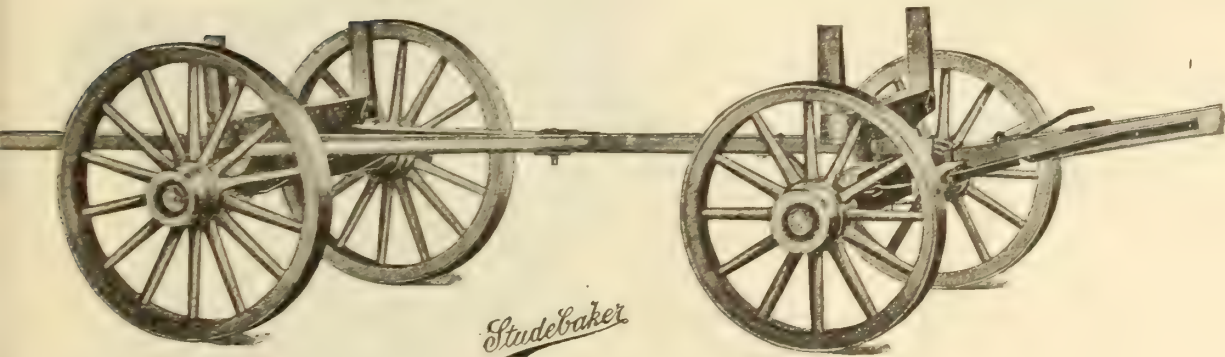
Size of Axle	Height of Wheels		Approximate	
	Size of Tire		Wght. Cap.	
	in. ft.	in. ft.	lbs.	lbs.
1 3/4 x 10 in. Solid Steel.....	3 1	4 3 2 1/2 x 3 1/2	1100	5000 \$80.00
2 x 11 in. Solid Steel.....	3 1	4 3 3 x 3 1/2	1275	6000 91.00

Special Discount for Cash

(With Wood Wheels.)

Farmer's Handy Truck—Wide Track. Cast Skeins Only

Price, with double and single trees.....\$35.00 net



*Studebaker*

This truck is adapted to farm or orchard work, but can be utilized for transfer work by adding a suitable platform. Reach is long enough for a 16 foot rack or bed. Bolsters have wrought iron sockets and removable wood standards.

Size of Cast Skeins	Height of Wheels		Size of Tire	Approximate	
	Front	Hind		Weight	Capacity
31-4x10 in.	30 in.	36 in.	4 x 3 1/2 in.	680 lbs.	4000 lbs

PRICES SUBJECT TO CHANGE WITHOUT NOTICE



STUDEBAKER WAGONS—Continued

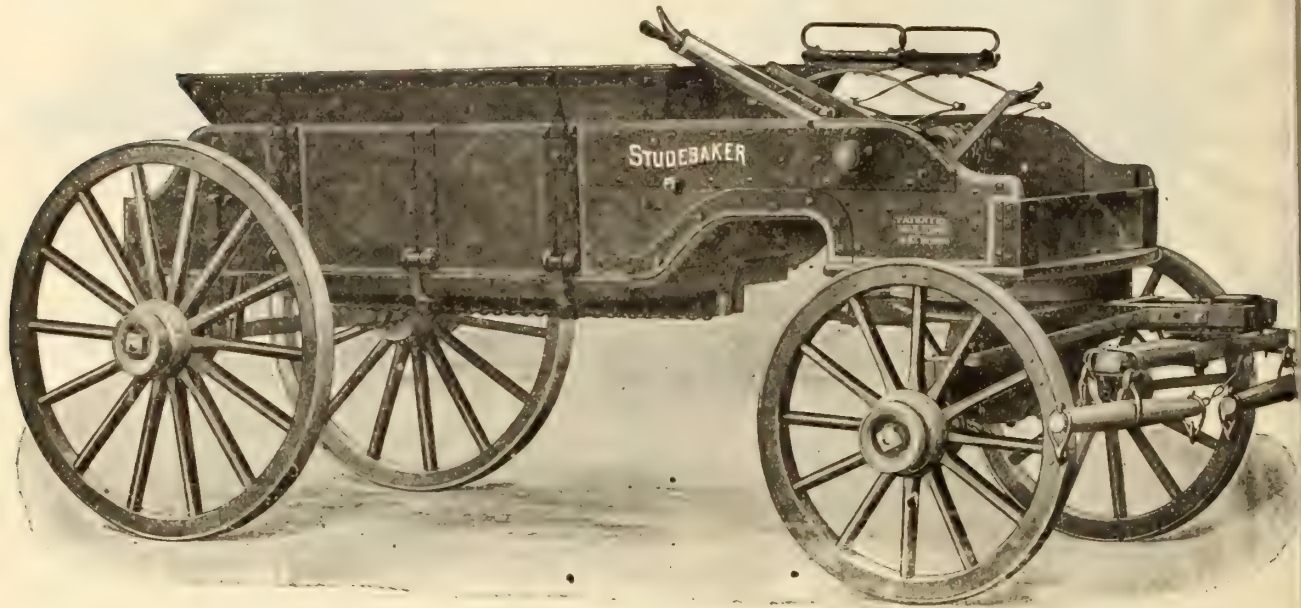
Studebaker Patent Improved Ideal Dump Wagon

The most complete and up-to-date dump wagon on the market.

Bed made of hardwood. Furnished with chain tongue. Complete with wings, whiffletrees and wrench. It has the oscillating fifth wheel, which will allow the front wheel on either side to drop into a depression in the roadway without disturbing the level of the body. Patent draft equalizing whiffletrees. Solid steel axles. Wood hub wheels, rims riveted each side of spoke. The dumping attachments are self-adjustable and easily operated.

The trap-doors—reinforced with a combination of steel plate and angle steel and swinging on four solid hinges—overlapping in center, with cleats on ends securing tight bed, will not leak sand, garbage, ashes, etc., along the street. Body ironed throughout for hard usage and rough work.

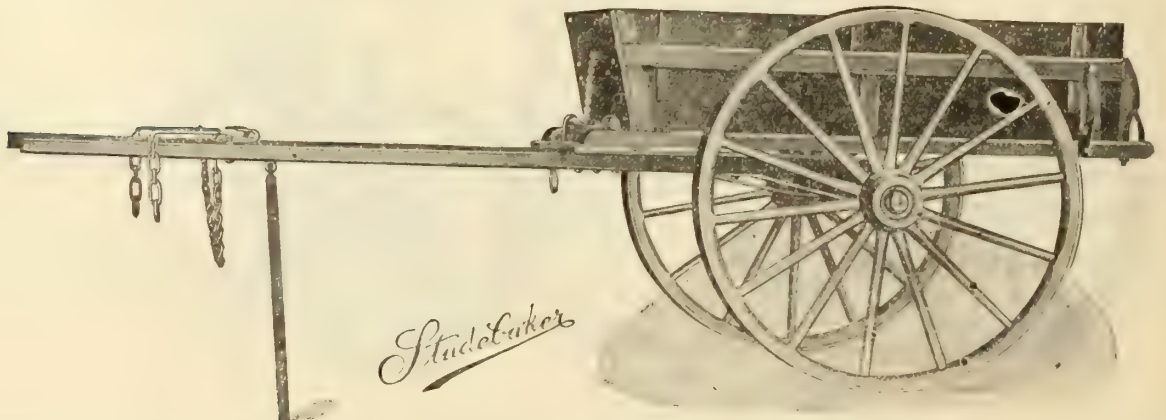
Extras: Brake. Steel lining. Steel and asbestos lining.



Size of Steel Axles		Height of Wheels		Size of Tire		Approximate Capacity		Height from Ground	
No.	Front	Hind	Front	Hind	Front	Stroke	Meas.	To Top of Bed	To Top of Wings
8297	2 in.	2 1/4 in.	38 in.	50 in.	3 1/2 x 5 1/4 in.	1 1/2	cu. yds.	4 ft. 3 1/2 in.	4 ft. 10 in.
8298	2 1/2 in.	2 3/4 in.	38 in.	50 in.	3 1/2 x 5 3/4 in.	2	cu. yds.	4 ft. 3 1/2 in.	5 ft. 2 1/2 in.

Ask for special catalogue and prices.

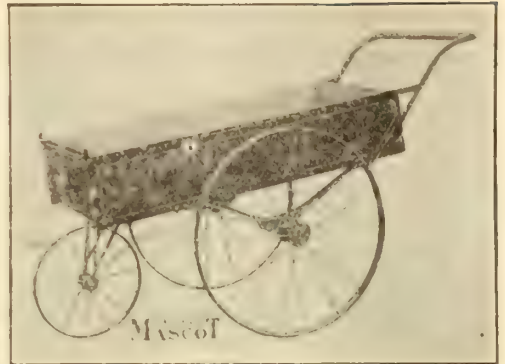
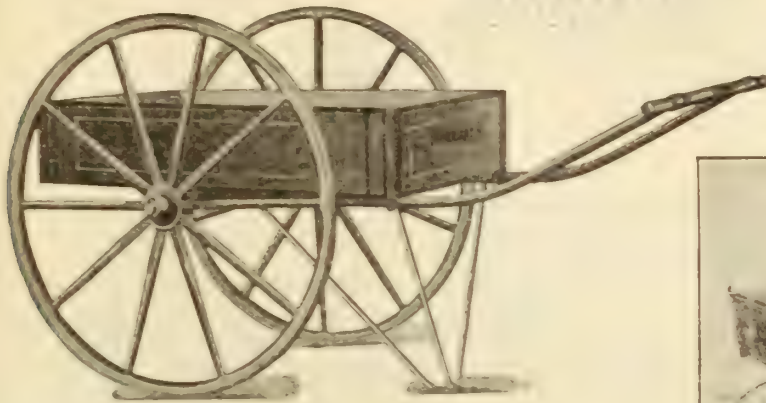
Studebaker Steel Axle Farm Cart



Size		Height		Size		of Bed		Approximate	
of Axle	of Wheels	of	of	of Tire	Lgth	Width	Dpth	Weight	Capacity
1 5/8 x 9	4	6	3 x 1/2	5	10	36 1/2	17	540	1700

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

## STUDEBAKER HAND CARTS



## Our Mascot Cart

A good cart with springs and three wheels. A well made cart at the right price, \$8.50.

## WAGONS AND PARTS

## Studebaker Improved Sensible Bolster Springs



The above cut illustrates our Improved Sensible Double Bolster Springs, the most complete wagon springs on the market. One great point of superiority which they possess over all other bolster springs is that the half elliptic spring on each side of the bolster permits the box to set low down on the bolster and still leaves sufficient room for the proper working of the

springs. Another advantage of our bolster spring lies in the ease with which it can be removed, if desired, and fitted to another wagon.

We carry in stock a full line of parts for Studebakers and other wagons and carts.

Carry 1000 pounds, per set	\$5.00
Carry 1500 pounds, per set	5.50
Carry 2000 pounds, per set	6.50
Carry 2500 pounds, per set	7.50
Carry 3000 pounds, per set	8.50
Carry 4000 pounds, per set	9.00
Carry 5000 pounds, per set	9.50

### Woolf & Co.'s Farm and Contractor's Cart

With 5 and 6 inch tires; also extra heavy Contractors' Carts made specially to order when wanted. These carts are very strong, heavily ironed, nicely painted, striped and varnished.

Size of Axle.	Size of Tire.	Diameter of Wheels	Price.
1½ inches	3 inches.	4 ft. 10 in.	\$37.50
1½ inches.	4 inches.	4 ft. 10 in.	41.50
2 inches.	3 inches.	4 ft. 10 in.	46.00
2 inches.	4 inches.	4 ft. 10 in.	50.00

PRICES SUBJECT TO CHANGE WITHOUT NOTICE



# Fertilizers

## BAUGH'S RAW BONE MEAL

### Warranted Pure

#### Guaranteed Minimum Analysis.

Total Phos. Acid, 21.50 per cent. Nitrogen, 3.70 per cent. Equiv. to Ammonia, 4.50.

This famous article, the corner-stone of our business, is precisely what its name indicates—nothing more, nothing less; just raw animal bones, finely ground. It is the best-known source of organic phosphoric acid.

Nothing excels Raw Bone Meal as a top dressing for meadows, pastures and lawns. The phosphoric acid of raw animal bones is not all immediately available, and for this reason bone meal is one of the safest and most economical manures that can be employed in fall or early spring. The effect of raw bone meal is plainly apparent upon grass land for years.

We guarantee each bag of Baugh's Raw Bone Meal—warranted pure, to be free from adulteration, under forfeiture of bill. It is finely ground, over one-half of it passing through a 50-mesh screen, which makes it worth to the consumer \$3 to \$5 per ton more than coarse ground bone. Bag, \$3.00. Ton, \$33.50.

## Woolf & Co.'s High Grade Truck Mixture

#### Guaranteed Minimum Analysis.

Available Phosphoric Acid, 8.00 per cent. Nitrogen, 2.47 per cent. Equivalent to Ammonia, 3.00 per cent. Potash, soluble in water, 3.00 per cent.

A complete, well-balanced fertilizer. One of our most valuable and efficient brands for gardening and trucking. Used for many years by large truckers in the South with the most satisfactory results, and we confidently recommend it for prompt action on early crops, for which it is especially made. It is preferred by many farmers and gardeners to the high-priced guano.

Bag, \$2.50. Ton, \$27.00.

## Woolf & Co.'s Special 10 per cent Potato Manure

Made under our special formula; pure animal base. We especially recommend this for Potatoes and other crops requiring a fertilizer with a high percentage of potash.

#### Guaranteed Analysis.

Avail. Phosphoric Acid .....	8.00
Nitrogen .....	1.65
Equivalent to Ammonia .....	2.00
Potash (Available) .....	10.00

Price, bag, \$2.50. Ton, \$28.00.

Prices on all fertilizers on application.

## Truckers' Favorite

A complete well-balanced fertilizer. Most valuable for gardening and trucking.

Ammonia, 2 per cent. Phos. Acid, 8 per cent. Potash, actual, 2 per cent. Nitrogen, 1.65. Bag, \$2.00. Ton, \$21.50.

## Wheat and Grass

This is one of the best spring fertilizers for grass or top dressing.

Analysis. 2 per cent Ammonia; 8 per cent Phosphoric Acid; 2 per cent Potash. Bag, \$2.00. Ton, \$21.50.

#### KAINIT (German Potash Salts).

Actual Potash, 12 per cent.

## Pure 10 per cent Peruvian Guano

Especially recommended for tobacco beds and as a top dressing for vegetables, etc.

#### ACID PHOSPHATE

Guaranteed analysis, Phos. Acid, 14 per cent.

Prices on Application.

## C. M. Woolf & Co.'s Special Brand Pure Raw Bone

Finely ground, which makes it act more quickly, thereby making it a very fine article for spring use.

Analysis: Ammonia, 2.50 per cent. Phos. Acid, 20 per cent. Bone Phosphate, 50 per cent. Bag, \$2.85. Ton, \$28.00.

## Woolf & Co.'s Corn and Oats Fertilizer

We recommend this specially prepared fertilizer for corn and oats. Its use will greatly increase the yield.

#### Guaranteed Analysis.

Ammonia .....	1.00
Avail. Phosphoric Acid .....	8.00
Potash (Available) .....	1.00

Bag, \$1.75. Ton, \$18.00.

## Genuine Nova Scotia Land Plaster or Gypsum

Plaster should be kept on every farm and used freely on manure piles and compost heaps. It is estimated that half of the value of stable manure, as ordinarily kept, escapes by leaching and fermentation, but land plaster unites with and holds ammonia, and thus retains value that would otherwise be lost. It is advisable to use 1½ to 2 lbs. of Nova Scotia Land Plaster per day on the manure of each horse or cow, making the application at the time of cleaning the stable. Use 1¼ lbs. of plaster per day for each pig or sheep, and ¼ ounce per day for each fowl.

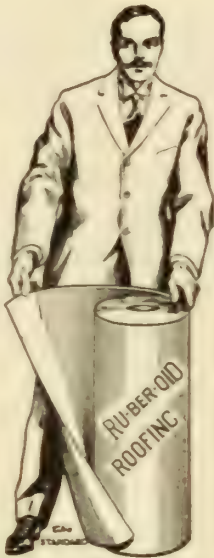
## Chemicals, Etc.

Nitrate of Soda, Ammonia 18.50 per cent.  
Muriate of Potash, sol. in water, 48 per cent.  
Sulphate Potash, Potash sol. in water, 48 per cent.

Ground Alum Salt, 160 pounds to bag.  
Fine Salt, 200 pounds to bag.  
Rock Salt.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

## Roofing, Flooring, Etc.



TRADE MARK REG. U.S. PAT. OFFICE.



# RU-BER-OID

## ROOFING

STANDARD FOR OVER TWENTY YEARS

**Ru-ber-Oid** is the original prepared, finished-surface Roofing, and was for several years the only roofing of this character. Different from and superior to all other prepared roofing that **Ru-ber-Oid** compound or **Gum**, an exclusive combination of high-grade water-proof, acid and fire-resisting ingredients is used in its manufacture and in no other roofing.

That the first roofs of **Ru-ber-Oid** applied in 1892 are still giving satisfactory service is indisputable evidence of unequalled durability.

**Ru-ber-Oid** contains no rubber. It contains no tar. It contains no paper. It contains no asbestos. It is not an asphalt roofing.

**Ru-ber-Oid** is tasteless. It is odorless. It can be used on roofs from which drinking water is conserved.

**Ru-ber-Oid** is fire-resisting. Hot coals thrown on a roof of **Ru-ber-Oid** do not set fire to the fabric nor to the boarding underneath.

**Ru-ber-Oid** is a non-conductor of heat. It keeps the heat in in winter, and the heat out in summer.

**Ru-ber-Oid** will outlast tin, iron or shingles. It has outlasted its upwards of 300 imitations, variously known as "rubber" roofing, "asphalt" roofing, "asbestos" roofings, roofing "old," etc., etc.

**Ru-ber-Oid** Accent on the "Ru," and always spelled with one B.

**Ru-ber-Oid** does not require painting when laid. No skilled labor is required to apply it. You need only

observe the simple directions enclosed with each roll. We furnish without additional charge sufficient nails, caps and cement for laying under ordinary conditions. Any handy man can do the work.

Ask for special catalogue.

Put in rolls 36 inches wide, containing 108 square feet and 216 square feet.

**Ka-lor-Oid** (Colored **Ru-ber-oid** Roofing) is manufactured in red, brown, and green, and is the only ready roofing to be had in permanent colors. These colors are impregnated into the fabric by a process of manufacture protected by U. S. and foreign patents. Ask for our free booklet on **Ka-lor-Oid**

Standard **Ru-ber-Oid** is furnished in four thicknesses. 1/2 ply for poultry houses, sheds, etc. 2 ply for Dwellings, Warehouses, Stores, etc. 1 ply for Barns, Outbuildings, etc. 3 ply for Factories, Foundries, etc.

1/2 ply, per 108 sq. feet, weight 26 lbs.....	\$1.75
1 ply, per 108 sq. feet, weight 35 lbs.....	2.25
2 ply, per 108 sq. feet, weight 45 lbs.....	3.25
3 ply, per 108 sq. feet, weight 55 lbs.....	4.00

These prices include caps, nails, and cement.

Ask for discounts.

**Ka-lor-Oid** (Red **Ru-ber-oid**) is furnished in medium weight at \$3 sq.; heavy weight at \$4 sq. A permanent roofing with a permanent color.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE



ROOFING, ETC.—Continued

RU-BER-INE

(Registered in U. S. Patent Office.)

This is a carefully prepared paint for use on Ru-ber-Oid Roofing. It contains no tar or acid. Put up in ½ gallon, 1 gallon, 5 gallon, 10 gallon cans and ½ barrels and barrels, in Black, Red, Brown, and

Green colors. One gallon of Ru-ber-Ine will cover 200 square feet of Ru-ber-Oid Roofing.

Price, black color, gal., \$1.00. Prices on other colors on application. Special prices on larger quantities.

Tarred Roofing Paper

3-ply, containing 108 square feet .....	\$1.00
2-ply, containing 108 square feet .....	.75
1-ply, containing 300 square feet .....	1.00

Lining or Sheathing Papers

Each Roll Contains 500 Square Feet.

20-pound .....	.50
30-pound .....	.75
40-pound .....	\$1.00

Pearl Sheathing, or Insulating Paper

Water, Acid and Gas Proof.

Price per roll, containing 500 square feet.....\$1.25  
Nubian Varnish, for tarred or other surfaces, such as boilers, smoke-stacks, iron bridges, etc.

1 gallon bucket .....	\$0.40
2 gallon bucket .....	.75
5 gallon bucket .....	1.50
10 gallon bucket .....	2.50

# Calendar of Monthly Operations

WHAT TO PLANT AND WHEN TO PLANT  
FOR EACH MONTH IN THE YEAR.

Applies to sections same climate as Middle Virginia. For other sections allowance must be made, according as they are earlier

or later

## JANUARY.

Prepare hot beds and sow early cabbage, lettuce, radish, beet, cauliflower and onion. Top dress asparagus beds with manure, also give an application of salt or kainit. Cut poles and stakes for pole beans and peas. Sow pansy and other flower seeds in hot-beds for later transplanting. Send in your order for seeds early, so as to have them on hand at the proper time for sowing.

## FEBRUARY.

For the Farm.—Top dress grass and clover fields or fall sown grain. If weather is open, use every opportunity to prepare land for early spring crops. Sow in hot-beds or cold frames early cabbage, cauliflower, beet, onion, lettuce, radish; and in hot-beds sow egg plant, tomato and pepper. The last of the month sow in open ground early peas, spring kale, rhubarb and horse radish roots, beets, spinach, carrot, celery, radish and parsley. Set out asparagus roots, onion sets, and hardy lettuce plants. Early plantings of potatoes can be made. Hardy flower seeds can be forwarded either by sowing in hot-beds or in pots and boxes in the house for later transplanting.

For the Farm.—Prepare plant beds and put in tobacco seed. Sow Canada field peas and oats, and towards end of month, grass and clover seeds can safely be put in. Sow dwarf essex rape for sheep grazing.

## MARCH

This is the active month for sowing all kinds of hardy seeds, and the sooner most of them are sown the better. Sow garden peas for succession, cauliflower, early cabbage seed, onion, celery, spinach, leek, parsley, lettuce, radish, beet, asparagus, carrot, parsnip, salsify, corn salad, collards, kale, rhubarb and early turnip, etc. Under glass, sow tomato, pepper, and egg plant seed. Plant Irish potatoes, asparagus and rhubarb, horse radish roots, onion sets, etc. Set out cauliflower, cabbage, onions, and lettuce plants, from hot-beds, after they have been hardened by leaving the glass open at night. Sow herbs in a warm border. Prepare melon, cucumber and squash hills for later planting. Sow the hardy kind of flower seeds, as they will flower earlier. Sow lawn grass.

For the Farm.—Sow winter and spring oats, Canada field peas with oats, clover, grass of all sorts, tobacco. Plant artichokes for hogs. Sow dwarf essex rape.

## APRIL.

Plant early potatoes, sow cabbage, lettuce and tomato in open ground for succession. Sow beets, celery, carrot, salsify, parsnip, onion, radish, spring kale, early turnip, kohlrabi, corn salad, collards, nasturtiums and rhubarb, asparagus, globe artichoke, parsley, mangel wurzels and herbs. Put out cabbage plants, onion sets and asparagus roots; bed sweet potatoes; plant early corn, garden peas, snap beans, and late in the month cucumber, squash, watermelon and cantaloupe can be planted. Vine seeds are tender, so should the weather be cold or wet, defer planting till May. Lawn grass can also be sown any time this month, but the earlier the better. Sow hardy flower seeds, after the middle of the month the half hardy kinds can be sown, and dahlia, gladiolus and canna bulbs set out.

For the Farm.—Sow spring oats, clover and grass seeds, but get them in early. Later in the month sow mangel wurzels for stock, plant corn, cotton, chufas, peanuts, etc.

## MAY.

Most of the tender seeds can be sown this month. Asparagus seed can yet be sown, likewise carrot, salsify, parsley, beet, pole and snap beans, sugar corn, and tomato, radish, brussel sprouts, broccoli, corn salad, collards and nasturtiums. Plant black-eye peas, lima beans, squash, cucumber, watermelon, cantaloupe, okra and pumpkin. Late cabbage and cauliflower can be sown to make plants for setting out for fall. Set out tomato, pepper and strawberry plants.

For the Farm.—Plant sugar beets and mangel wurzel for winter feeding. All the sorghums, millets and fodder plants can be sown; likewise cow peas; soja and navy beans. Chufas should be planted now, likewise corn, peanuts and cotton. Set out tobacco plants.

## JUNE.

Set out cabbage, tomato, egg-plant, pepper, and sweet potato plants. Sow tomato for late crop, late cabbage and cauliflower for winter use. Plant collards, okra, watermelon, cantaloupe,

cucumber, squash and pumpkin for late use, and radish, pole, navy and snap beans and sweet corn for succession. Plant late potatoes.

For the Farm.—Sow the millets, cow peas, sorghum, soja beans, navy beans, and plant late corn. Mangel wurzel beets can yet be sown.

## JULY.

Plant snap beans and radish for succession and sugar corn for late roasting ears. Set out late cabbage and celery plants for winter use. This is the best month to sow ruta bagas, but they can also be sown in August. Sow collards, kohlrabi, lettuce, early turnips. Plant cucumbers for pickling and table, and late potatoes for winter use.

For the Farm.—Sow German and Hungarian millet for hay or fodder, corn in drill for ensilage or fodder. Cow Peas for hay or as a soil improver. Buckwheat can be sown for bees, as an improver of the soil, and for grain. Plant navy beans. Sow crimson clover at last working of corn or cotton. Sow dwarf essex rape for sheep and cattle grazing.

## AUGUST.

Continue planting snap beans for the table and pickles. If any cabbage plants remain unplanted, put out at once; likewise celery plants. Sow cabbage and Big Boston lettuces for fall heading, likewise endive. Sow winter radish, endive, collards, parsley, spinach, kale, turnip, ruta бага and Spanish and Italian varieties of onions.

For the Farm.—Crimson clover is one of the best crops grown, and should be sown on every vacant place. If it is not required for feed, it will improve the soil equal to manure when turned under. Rye and barley should be sown for fall and winter grazing and afterwards will make a crop of grain. Sow vetches and rape, and towards the end of the month grasses and clover seed and alfalfa can be safely put in.

## SEPTEMBER.

Sow lettuce, early cabbage, cauliflower and onion for transplanting in November. Sow cabbage late in the month. Put out onion sets. Sow winter radishes, spinach, turnips, mustard, corn salad, leek, parsley, kale, and extra early peas. Dutch bulbs, hyacinths, tulips, etc., can be planted towards the end of this month.

For the Farm.—Sow Crimson Clover as early in the month as convenient, though any time during the month will do; it makes fine winter grazing and land will be greatly improved by growing this crop. Winter oats will do well sown this month, as they will get well rooted before winter. Sow all kinds of grass and clover seeds and winter and hairy vetches. Continue to sow barley and rye, as they are useful for winter grazing as well as for grain. Sow Dwarf Essex Rape for pigs and cattle.

## OCTOBER.

Put out onion sets. Sow cabbage (early sorts), turnips for salad, kale, mustard, spinach, collard and lettuce. Towards end of the month set out cabbage and lettuce plants to stand out during the winter. Sow lawn grass seed. Fall seeding does better than spring seeding. Plant hyacinths, tulips, etc. Sow pansy seed in cold frames for spring plants. Plant strawberries.

For the Farm.—All kinds of grass and clover seeds can be sown this month, but the earlier clover seed is put in the better. Sow wheat, oats, rye, barley, vetches and rape.

## NOVEMBER.

Sow lettuce and early varieties of cabbage in cold frames. Set out cabbage, lettuce and strawberry plants. Plant out asparagus, rhubarb and horse radish roots. Lawn grass can yet be sown, but the earlier it is put in the better. Flowering bulbs can be put in this month.

For the Farm.—Wheat, rye, barley, vetches, timothy and herd's grass can yet be sown, but the earlier they are put in the better. Sow Canada field peas. Rye makes a fine soiling and cover crop. Sow it liberally on all vacant lands.

## DECEMBER.

Cabbage and lettuce can be sown towards the end of the month in hot-beds or cold frames, and beets, radish and lettuce can be forced for winter use. The winter growing of lettuce in hot-beds usually proves very profitable and satisfactory. Plant Marrowfat Peas for market or garden use. Canada field peas can also be sown, but when seeded during the winter should be put in deeper than usual.



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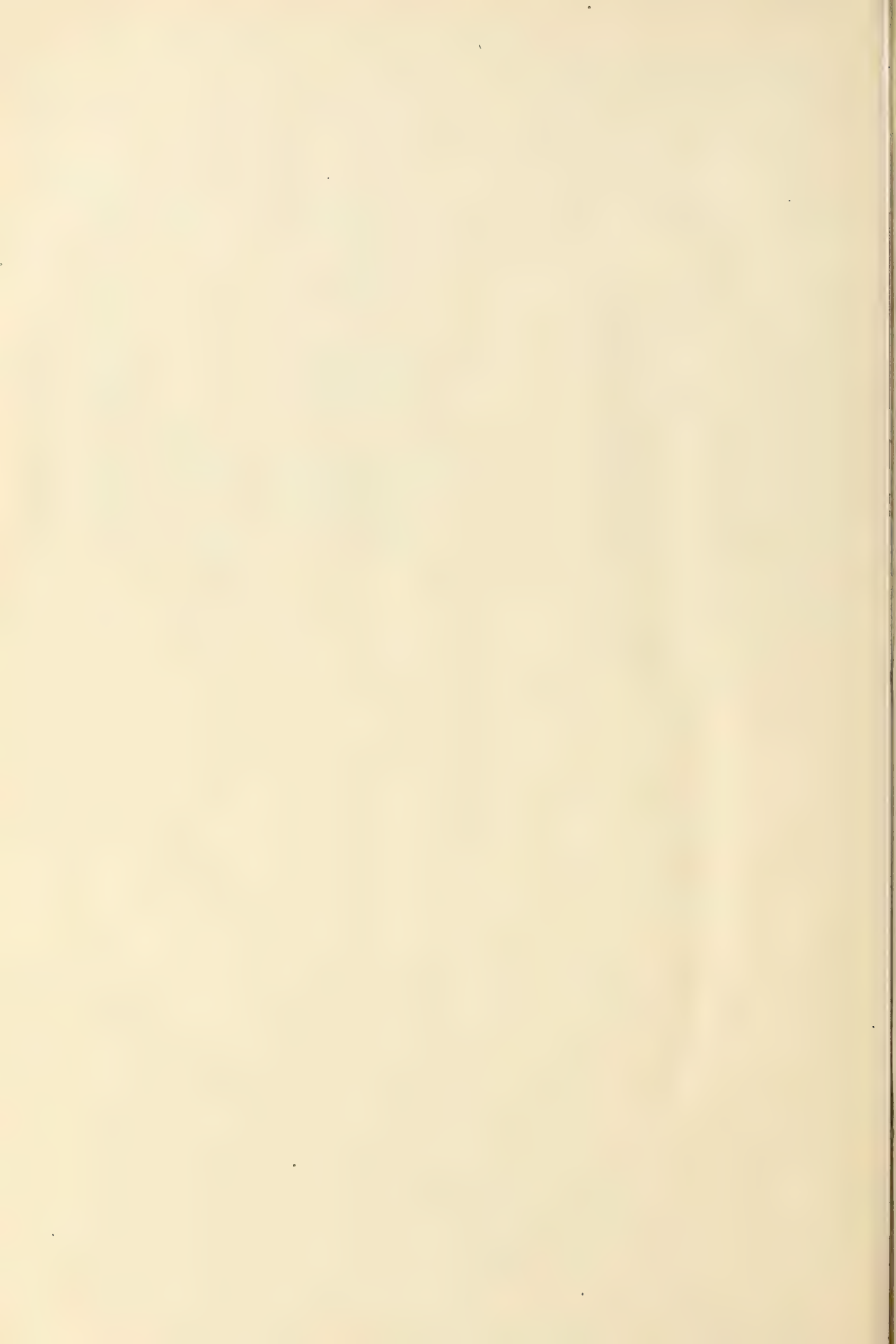
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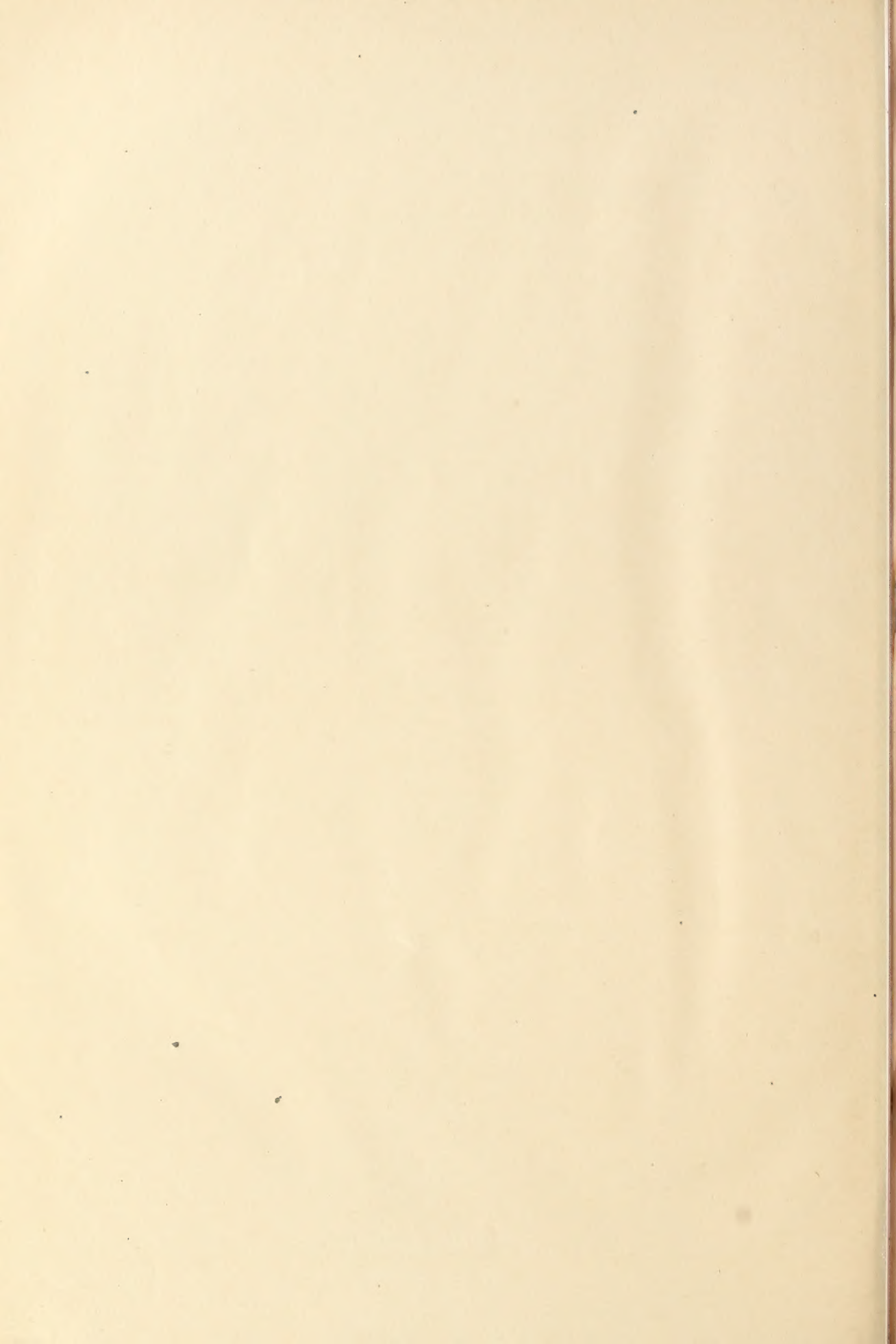
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## Quantity and Seed Requisite to Produce a Given Number of Plants and Sow an Acre

	Quantity Per Acre		Quantity Per Acre
Artichoke, 1 oz. to 500 plants.....	6 oz.	Grass, Timothy .....	$\frac{1}{4}$ bus.
Asparagus, 1 oz. to 800 plants.....	1 lb.	Hemp .....	$\frac{1}{2}$ bus.
Barley .....	$2\frac{1}{2}$ bus.	Kale, 1 oz. to 3,000 plants.....	4 oz.
Beans, dwarf, $1\frac{1}{2}$ pts. to 100 feet of drill.....	1 bus.	Kohlrabi, 1-3 oz. to 100 feet of drill.....	4 lbs.
Beans, pole, $1\frac{1}{2}$ pts. to 100 hills.....	$\frac{1}{2}$ bus.	Lcek, 1-3 oz. to 100 feet of drill.....	4 lbs.
Beet, garden, 1 oz. to 100 feet of drill.....	7 lbs.	Lettuce, $\frac{1}{4}$ oz. to 100 feet of drill.....	3 lbs.
Beet, Mangel, 1 oz. to 100 feet of drill...		Martynia, $\frac{1}{2}$ oz. to 100 feet of drill.....	5 lbs.
Broccoli, 1 oz. to 3,000 plants.....	4 oz.	Melon, Musk, 1 oz. to 100 hills.....	3 lbs.
Broom Corn .....	10 lbs.	Melon, Water, 4 oz. to 100 hills.....	3 lbs.
Brussels Sprouts, 1 oz. to 3,000 plants.....	4 oz.	Nasturtium, 2 oz. to 100 feet of drill.....	15 lbs.
Buckwheat .....	$\frac{1}{2}$ bus.	Oats .....	2 bus.
Cabbage, 1 oz. to 3,000 plants.....	4 oz.	Okra, $1\frac{1}{2}$ oz. to 100 feet of drill.....	8 lbs.
Carrot, $\frac{1}{4}$ oz. to 100 feet of drill.....	$2\frac{1}{2}$ lbs.	Onion Seed, 1-3 oz. to 100 feet of drill.....	4 to 5 lbs.
Cauliflower, 1 oz. to 3,000 plants.....	4 oz.	Onion Seed for Sets .....	40 to 80 lbs.
Celery, 1 oz. to 15,000 plants.....	4 oz.	Onion Sets, 1 quart to 20 feet of drill.....	8 bus.
Clover, Alsike and White Dutch.....	6 lbs.	Parsn p, $\frac{1}{4}$ oz. to 100 feet of drill.....	3 lbs.
Clover, Lucerne, Large Red; Crimson Trefoil.....	8 lbs.	Parsley, $\frac{1}{4}$ oz. to 100 feet of drill.....	3 lbs.
Clover, Medium .....	12 lbs.	Peas, garden, 1 pint to 100 feet of drill.....	2 bus.
Collards, 1 oz. to 3,000 plants.....	4 oz.	Peas, field .....	2 bus.
Corn, sweet, $\frac{1}{4}$ pint to 100 hills.....	5 qts.	Pepper, 1 oz. to 1,500 plants.....	3 oz.
Cress, $\frac{1}{2}$ oz. to 100 feet of drill.....	10 lbs.	Potatoes .....	8 bus.
Cucumber, 1 oz. to 100 hills.....	3 lbs.	Pumpkin, 1-3 qt. to 100 hills.....	3 to 4 lbs.
Eggplant, 1 oz. to 2,000 plants.....	4 oz.	Radish, 2-3 oz. to 100 feet of drill.....	10 to 12 lbs.
Endive, $\frac{1}{4}$ oz. to 100 feet of drill.....	$4\frac{1}{2}$ lbs.	Rye .....	$1\frac{1}{2}$ bus.
Flax, Broadcast .....	$\frac{1}{2}$ bus.	Salsify, $\frac{1}{2}$ oz. to 100 feet of drill.....	8 lbs.
Garlic, bulbs, 1 lb. to 10 feet of drill.....		Spinach, $\frac{1}{2}$ oz. to 100 feet of drill.....	8 lbs.
Gourd, 2 oz. to 100 hills.....		Summer Savory, 1 packet to 100 feet of drill.....	$\frac{1}{4}$ lbs.
Grass, Blue, Kentucky .....	2 bus.	Squash, Summer, 4 oz. to 100 hills.....	3 lbs.
Grass, Blue, English .....	1 bus.	Squash, Winter, 8 oz. to 100 hills.....	3 lbs.
Grass, Hungarian and Millet .....	$\frac{1}{2}$ bus.	Tomato, 1 oz. to 2,500 plants.....	2 oz.
Grass, Mixed Lawn .....	3 to 5 bus.	Tobacco, 1 oz. to 5,000 plants.....	2 oz.
Grass, Orchard, Perennial Rye, Red Top, Fowl		Turn'p, 1 oz. to 250 feet of drill.....	$1\frac{1}{2}$ lbs.
Meadow and Wood Meadow .....	2 bus.	Vetches, with 1 bu. oats or $\frac{1}{4}$ bu. wheat.....	20 to 30 lbs.
Grass, Red Top, Fancy Clean.....	8 to 10 lbs.	Wheat .....	$1\frac{1}{4}$ bus.

## Number of Plants or Trees to the Acre at Given Distance

Distance apart	No. plants	Distance apart	No. plants	Distance apart	No. plants	Distance apart	No. plants
12x1 inches.....	522,720	24x24 inches.....	10,890	36x36 "	4,840	60x60 inches.....	1,743
12x3 "	174,240	30x1 "	209,088	42x12 "	12,446	8x1 foot.....	5,445
12x12 "	43,560	30x6 "	34,848	42x24 "	6,223	8x3 "	1,815
16x1 "	392,040	30x12 "	17,424	42x36 "	4,148	8x8 "	680
18x1 "	348,480	30x16 "	13,068	48x12 "	10,890	10x1 "	4,356
18x3 "	116,160	30x20 "	10,454	48x18 "	7,790	10x6 "	726
18x12 "	29,040	30x24 "	8,712	48x24 "	5,445	10x10 "	435
18x18 "	19,360	30x30 "	6,970	48x30 "	4,356	12x1 "	3,630
20x1 "	313,635	36x3 "	58,080	48x36 "	3,630	12x5 "	736
20x20 "	15,681	36x12 "	14,520	48x48 "	2,723	12x12 "	302
24x1 "	261,360	36x18 "	9,680	60x36 "	2,901	16x1 "	2,722
24x18 "	15,520	36x24 "	7,260	60x48 "	2,178	16x16 "	170

## Weights of Various Articles per Bushel

	Pounds		Pounds
Apples .....	48	Malt .....	38
Apples, dried .....	22	Oats .....	32
Barley .....	48	Onions .....	54
Beans .....	60	Peaches, dried .....	28
Blue Grass .....	14	Peas .....	60
Buckwheat .....	44	Rye .....	56
Broom Corn .....	44	Timothy Seed .....	45
Bran .....	26	Wheat .....	60
Clover Seed .....	60		
Corn, shelled .....	56		
Corn, on ear .....	70		
Corn Meal .....	50		
Cranberries .....	40		
Flax Seed .....	50		
Hemp Seed .....	40		
Hungarian Grass Seed .....	48		
Irish Potatoes .....	60		


## WEIGHT PER CUBIC FOOT

Hay, well settled .....	$4\frac{1}{2}$
Corn on cob, in bin .....	22
Corn shelled, in bin .....	45
Wheat, in bin .....	48
Oats, in bin .....	$25\frac{1}{2}$
Potatoes, in bin .....	$38\frac{1}{2}$



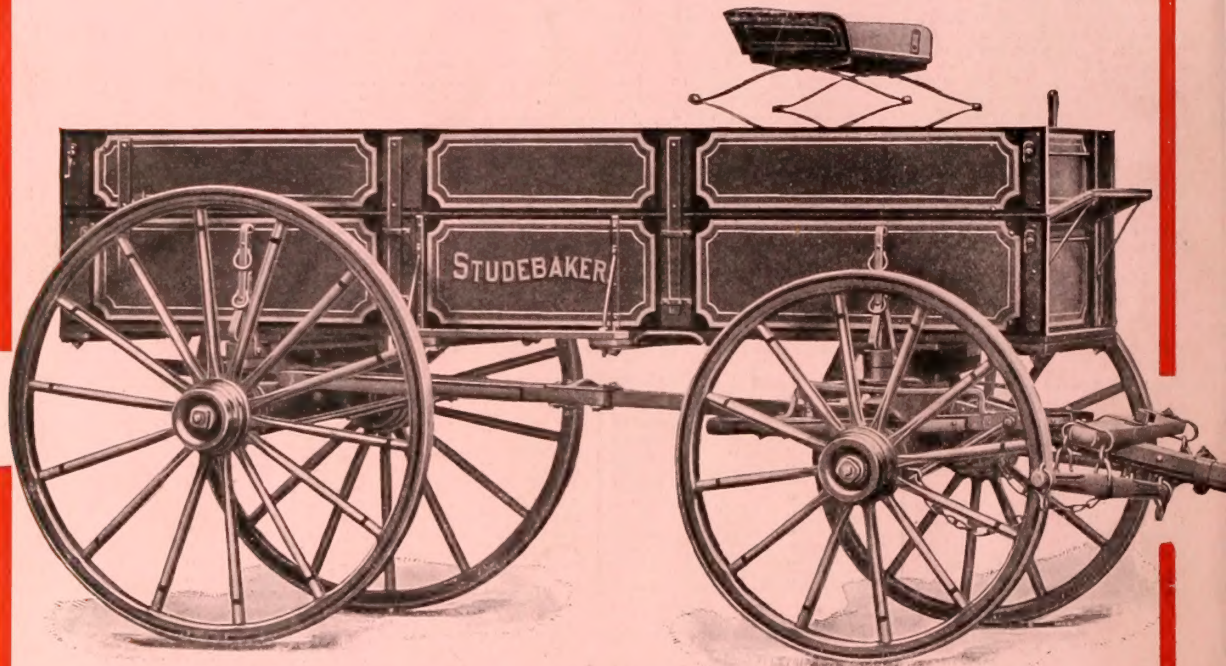
# STUDEBAKER LINES

Farm Wagons, Dump Wagons

 Dump Carts, Hand Carts

Street Sprinklers, Etc.

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THE BEST WAGON IN THE WORLD

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**Studebaker Harness**